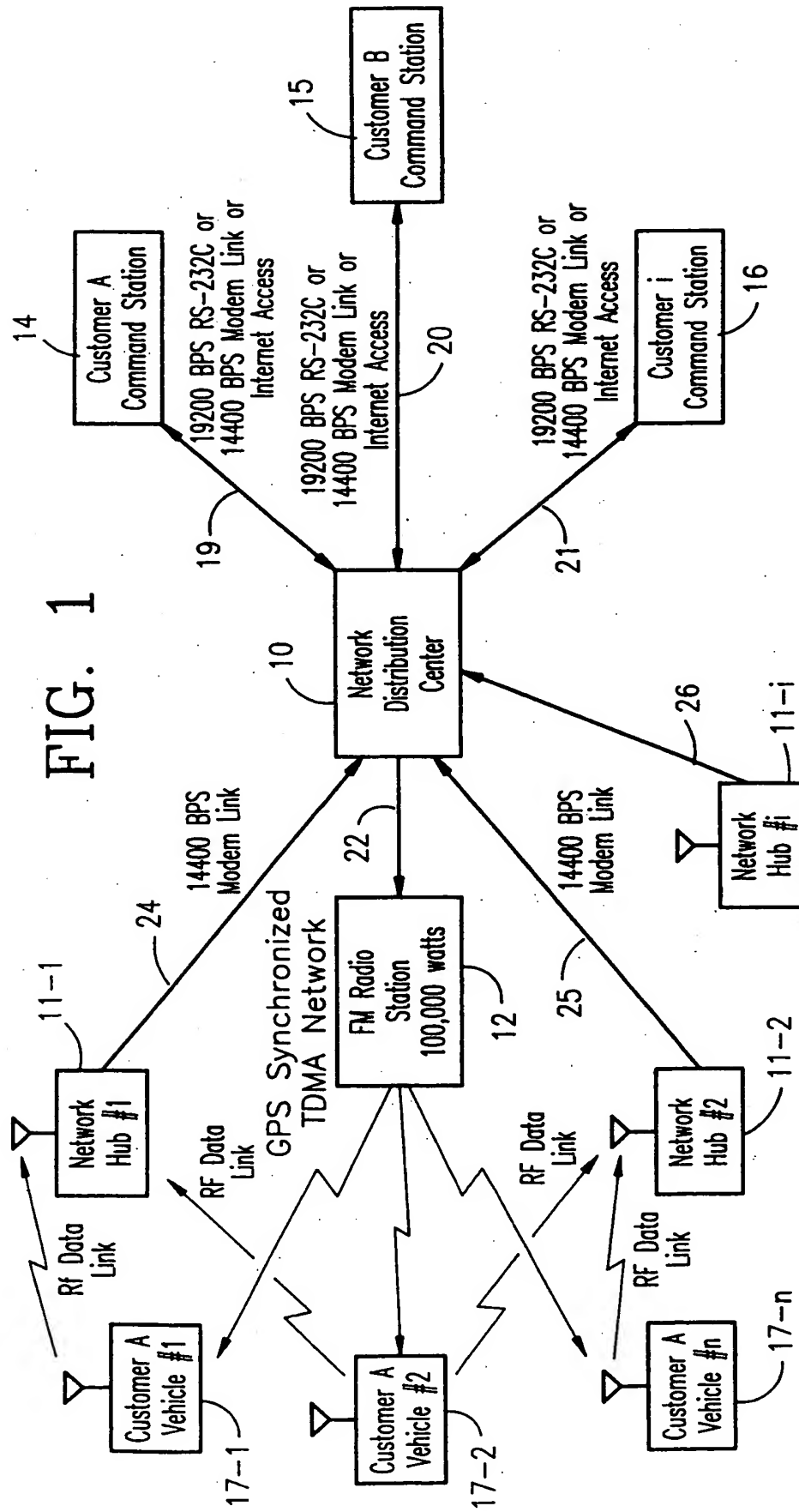


FIG. 1



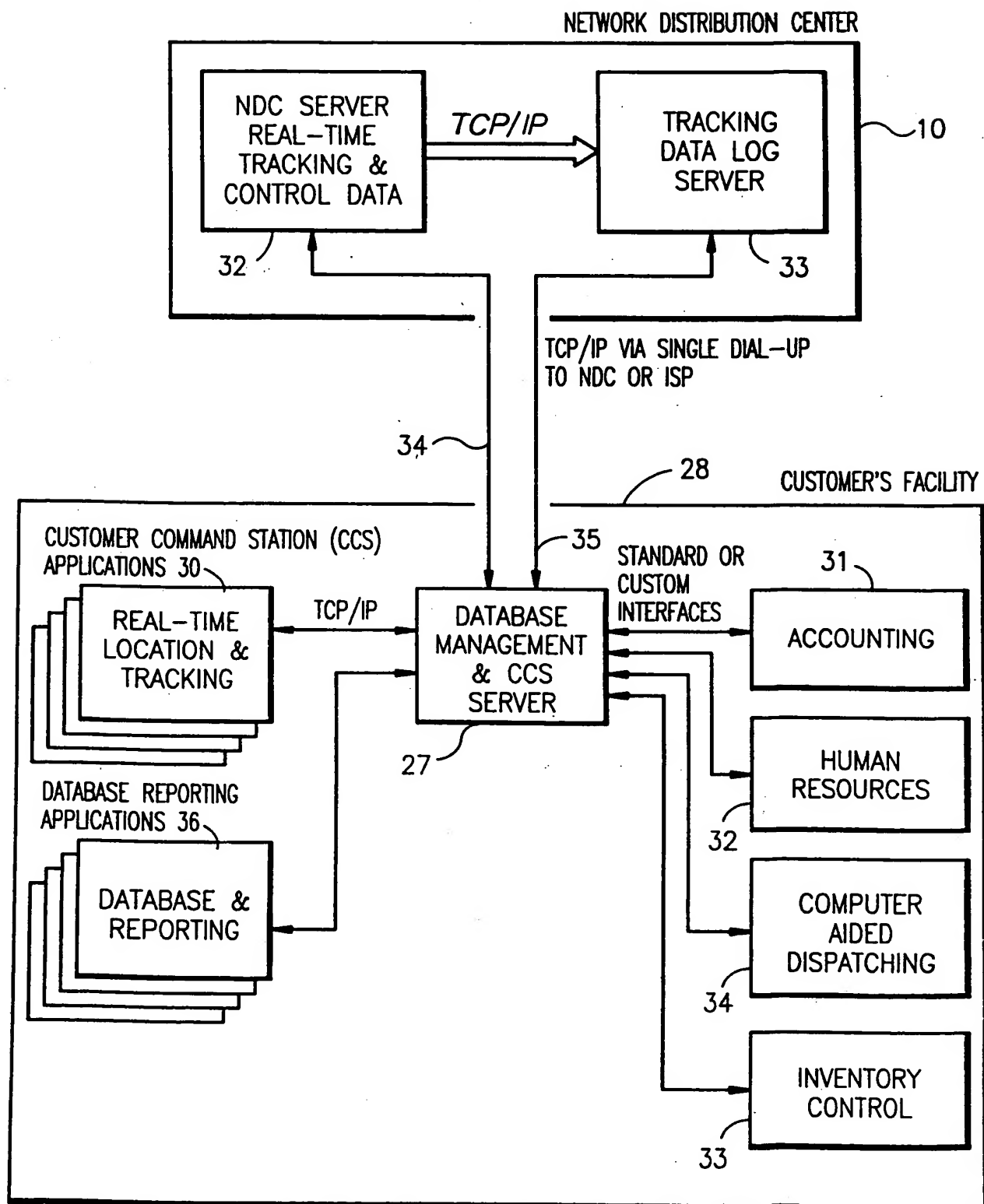


FIG. 2

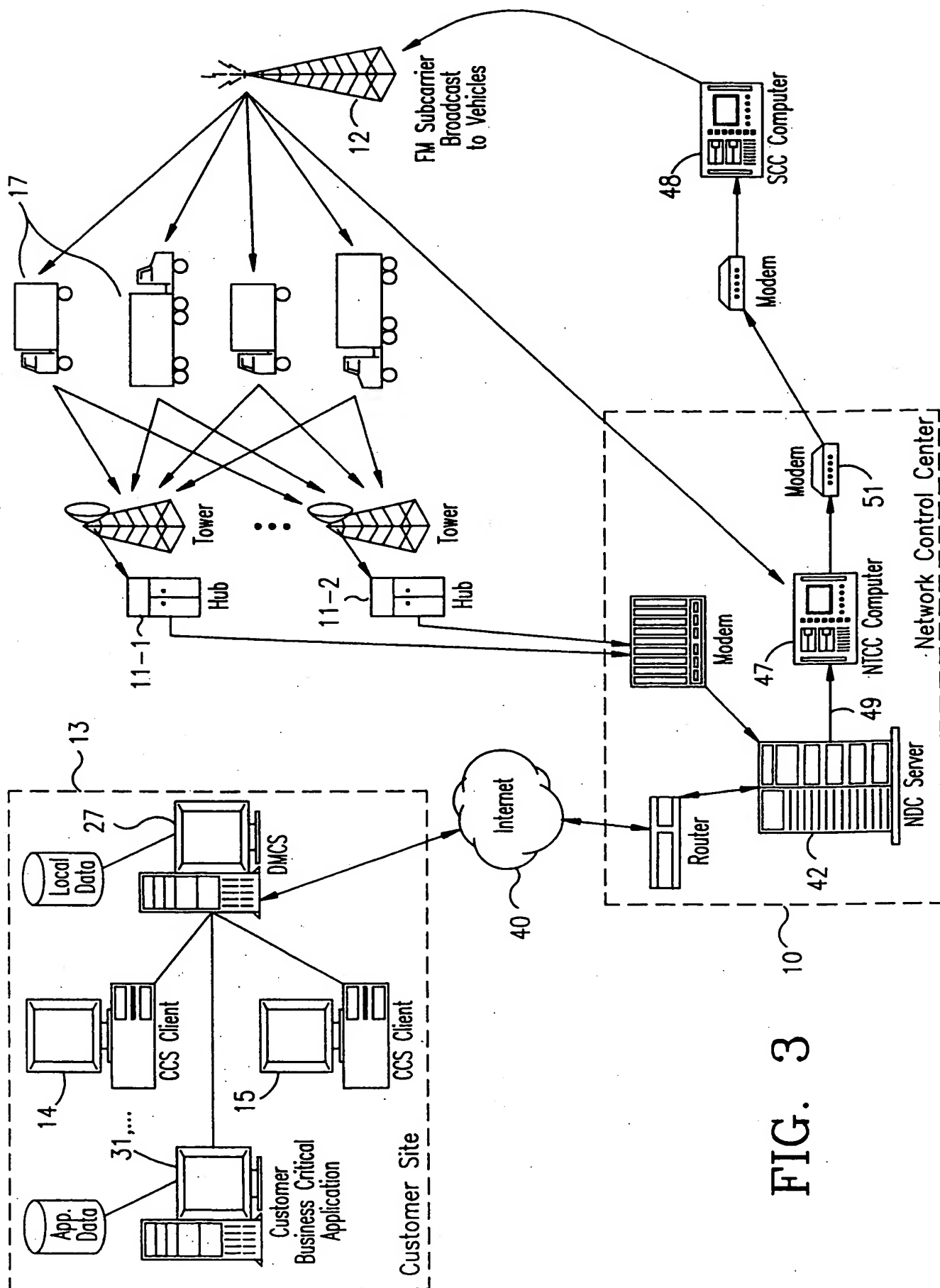


FIG. 3

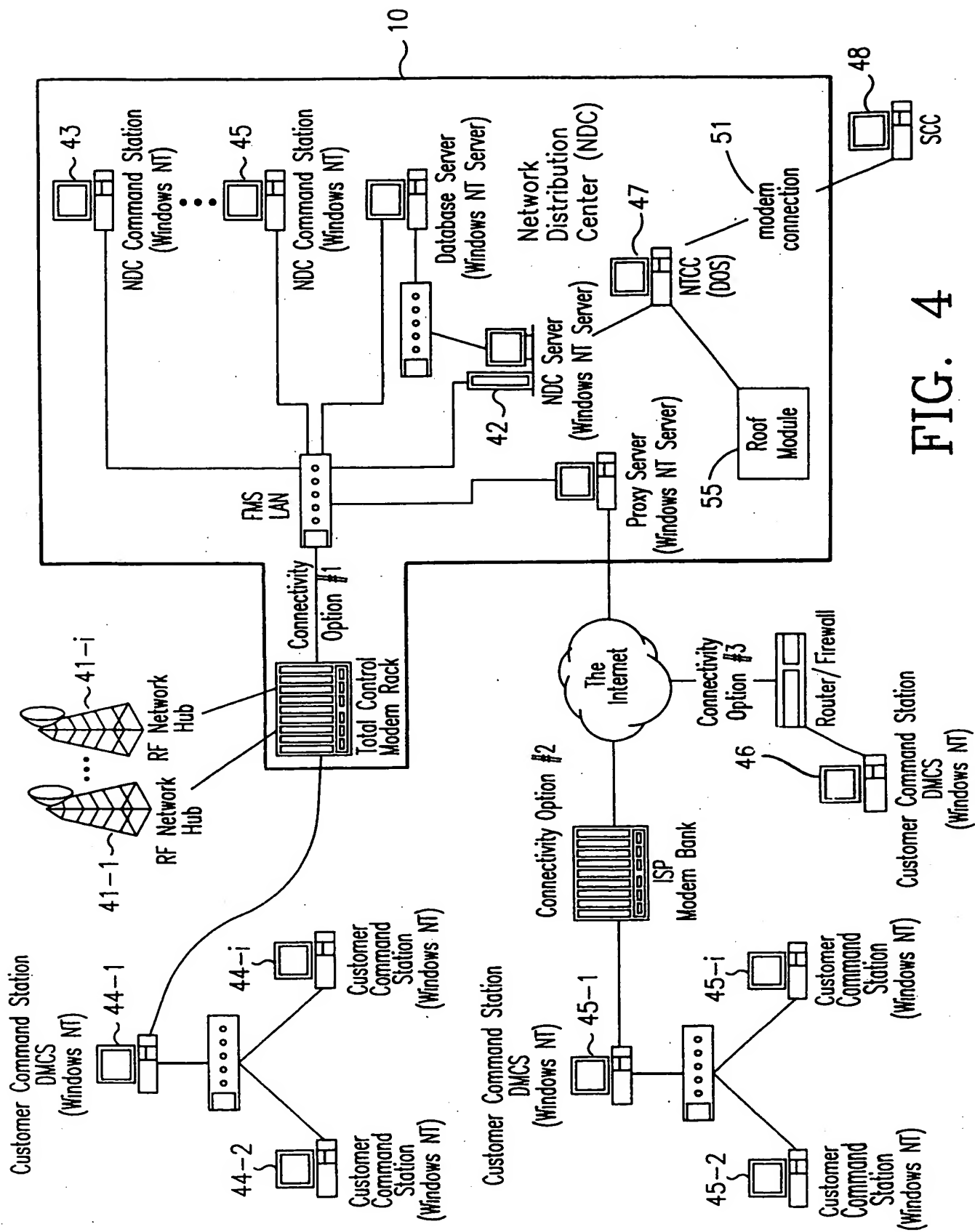


FIG. 4

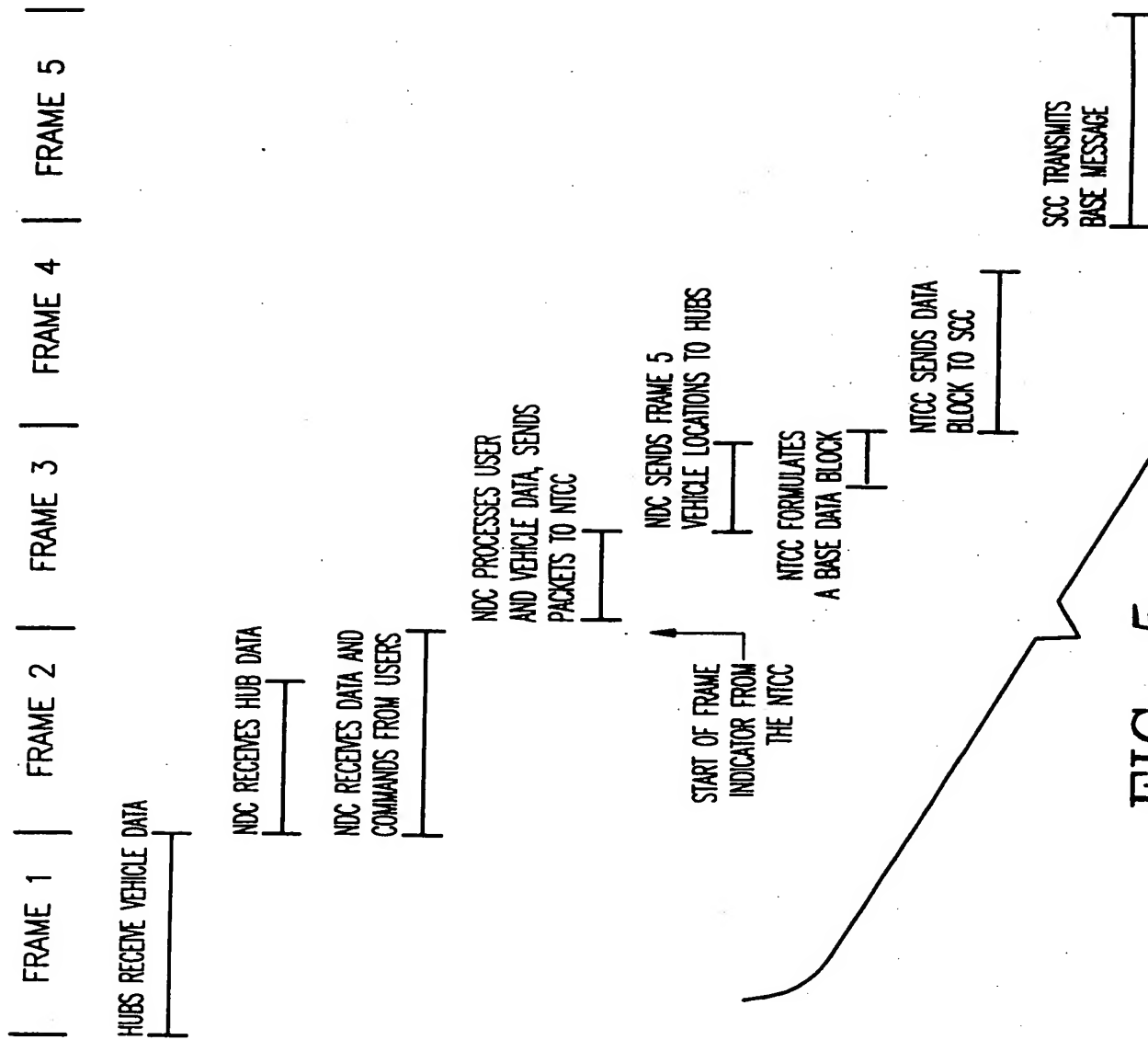
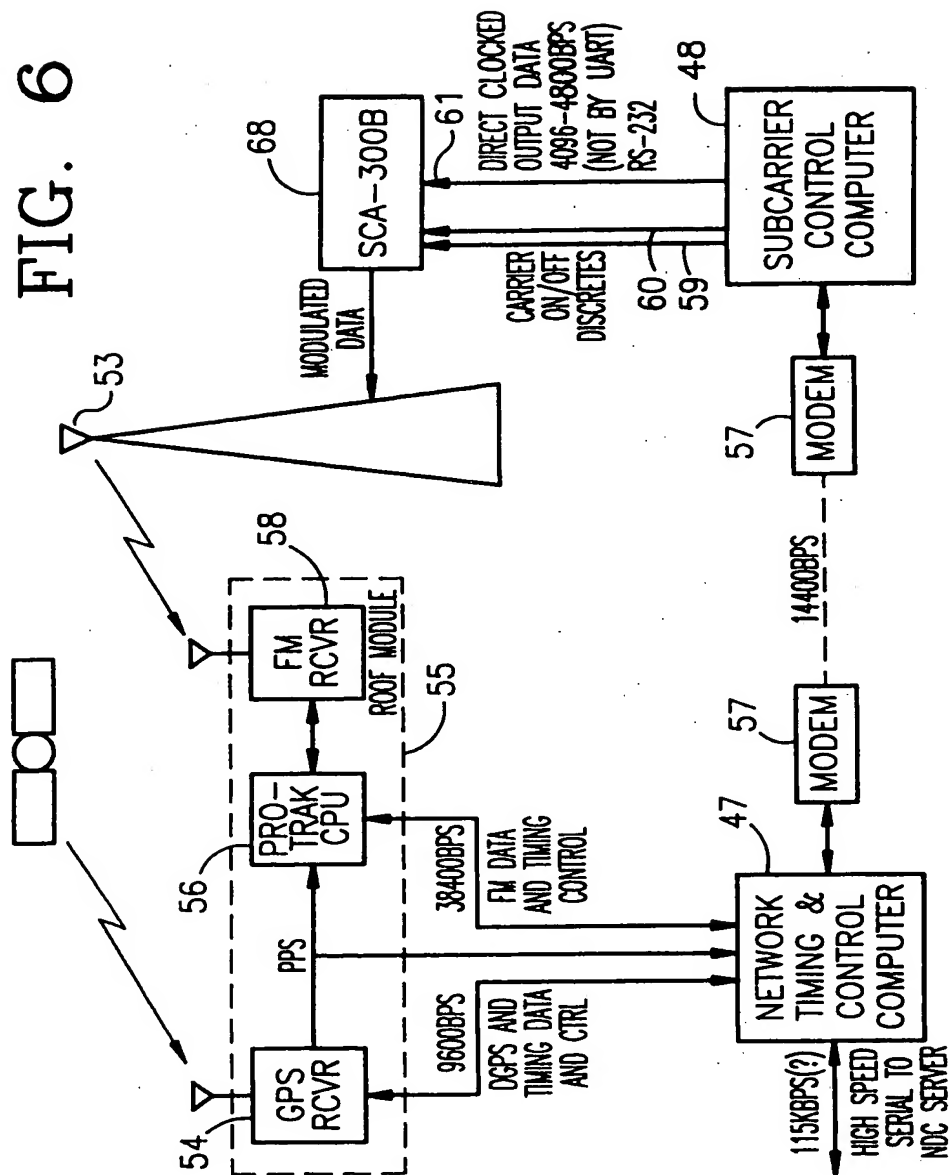


FIG. 5

FIG. 6



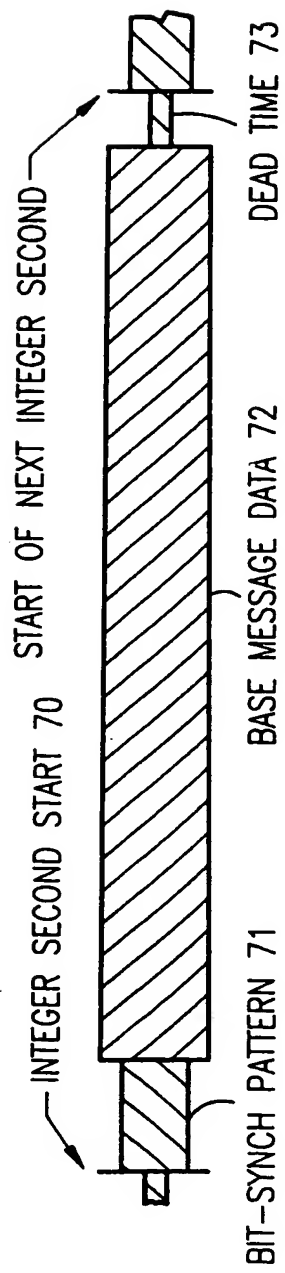


FIG. 7

FIG. 8

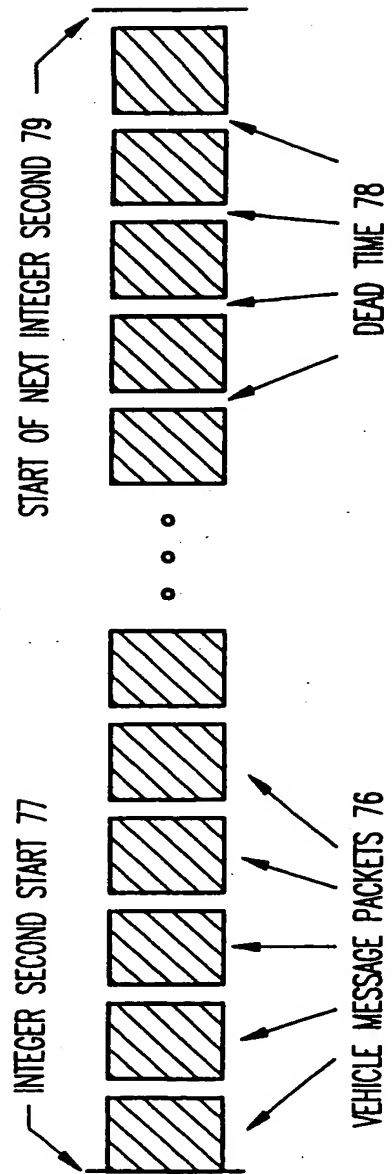
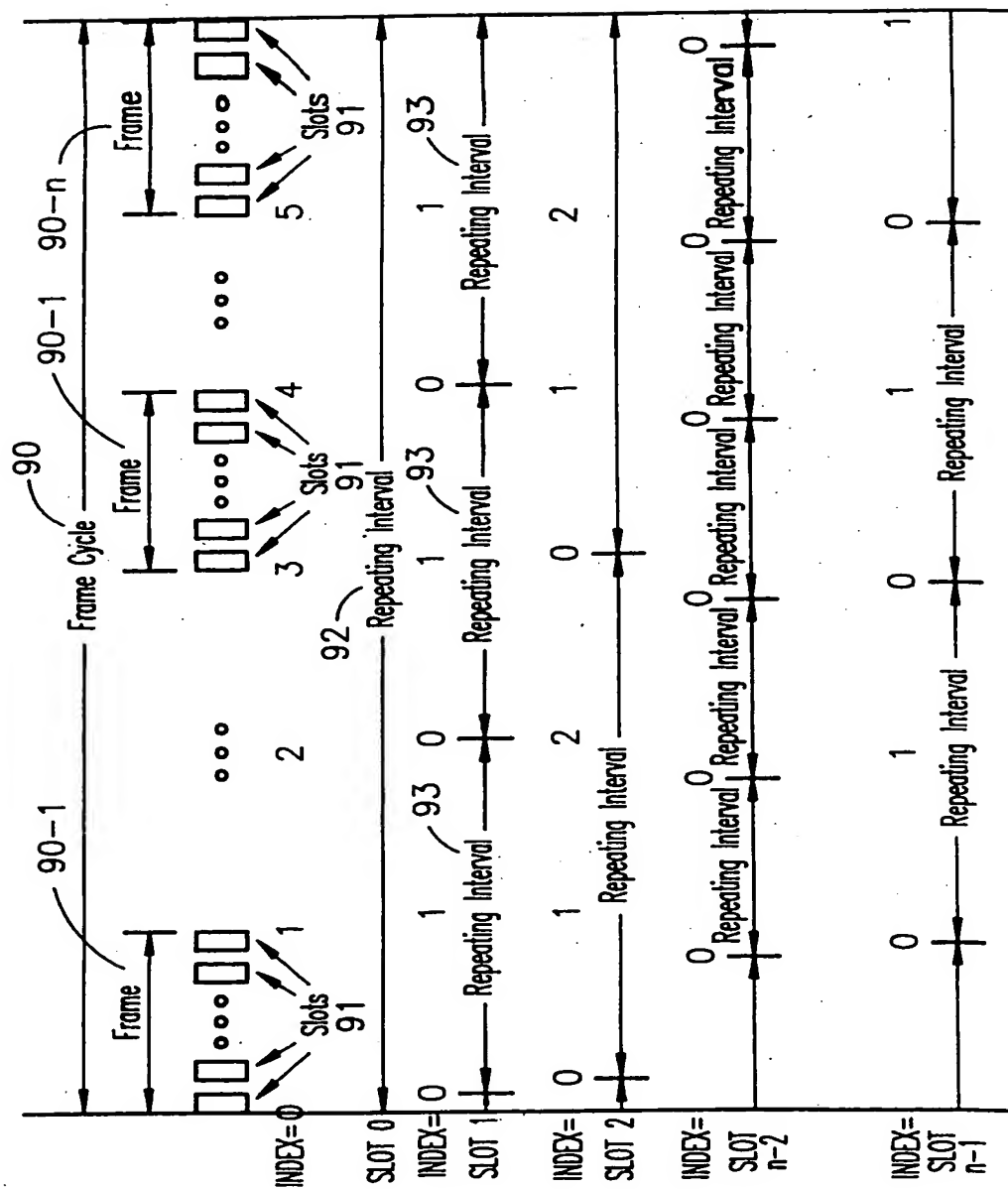


FIG. 9



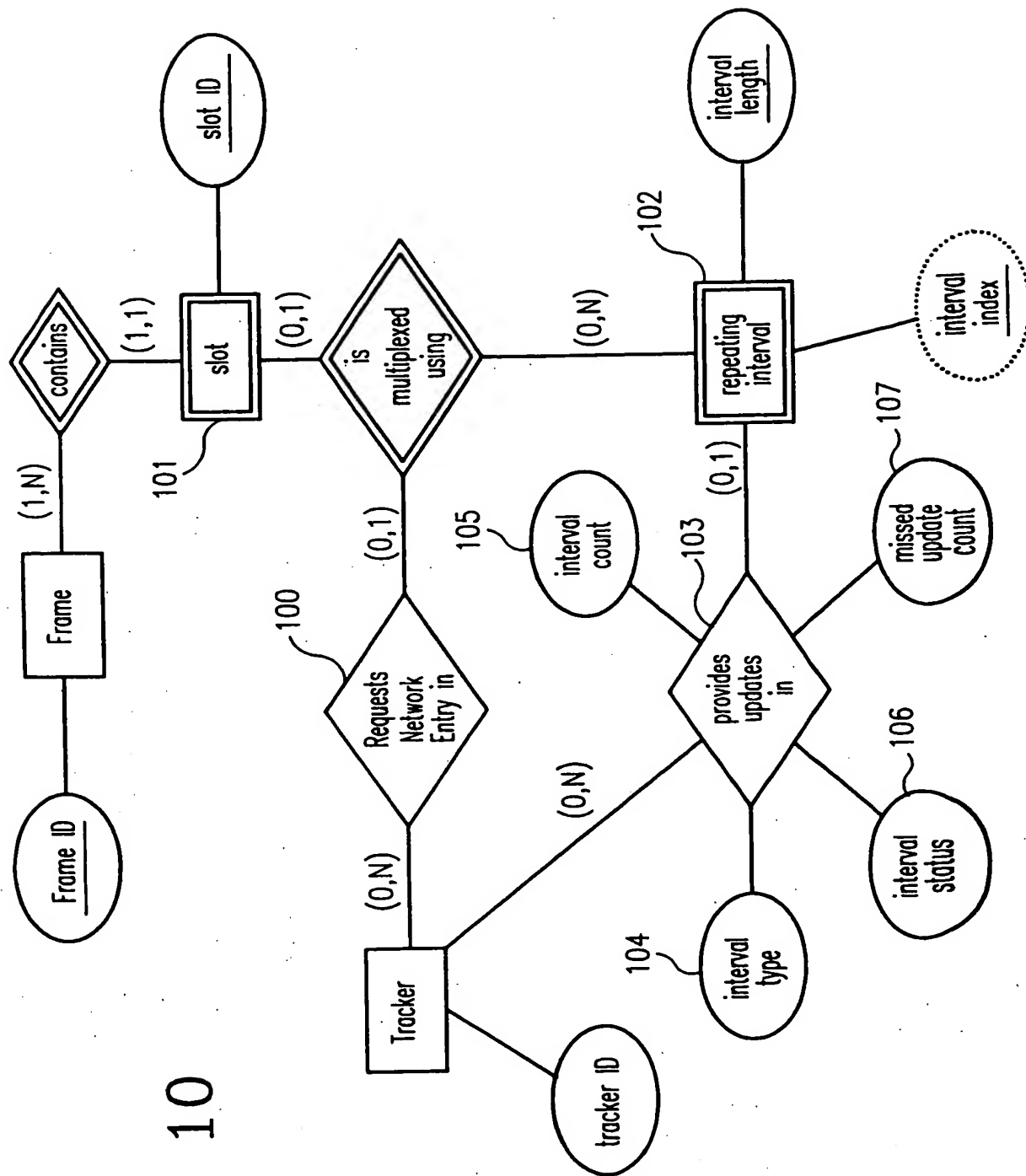


FIG. 10

FIG. 11

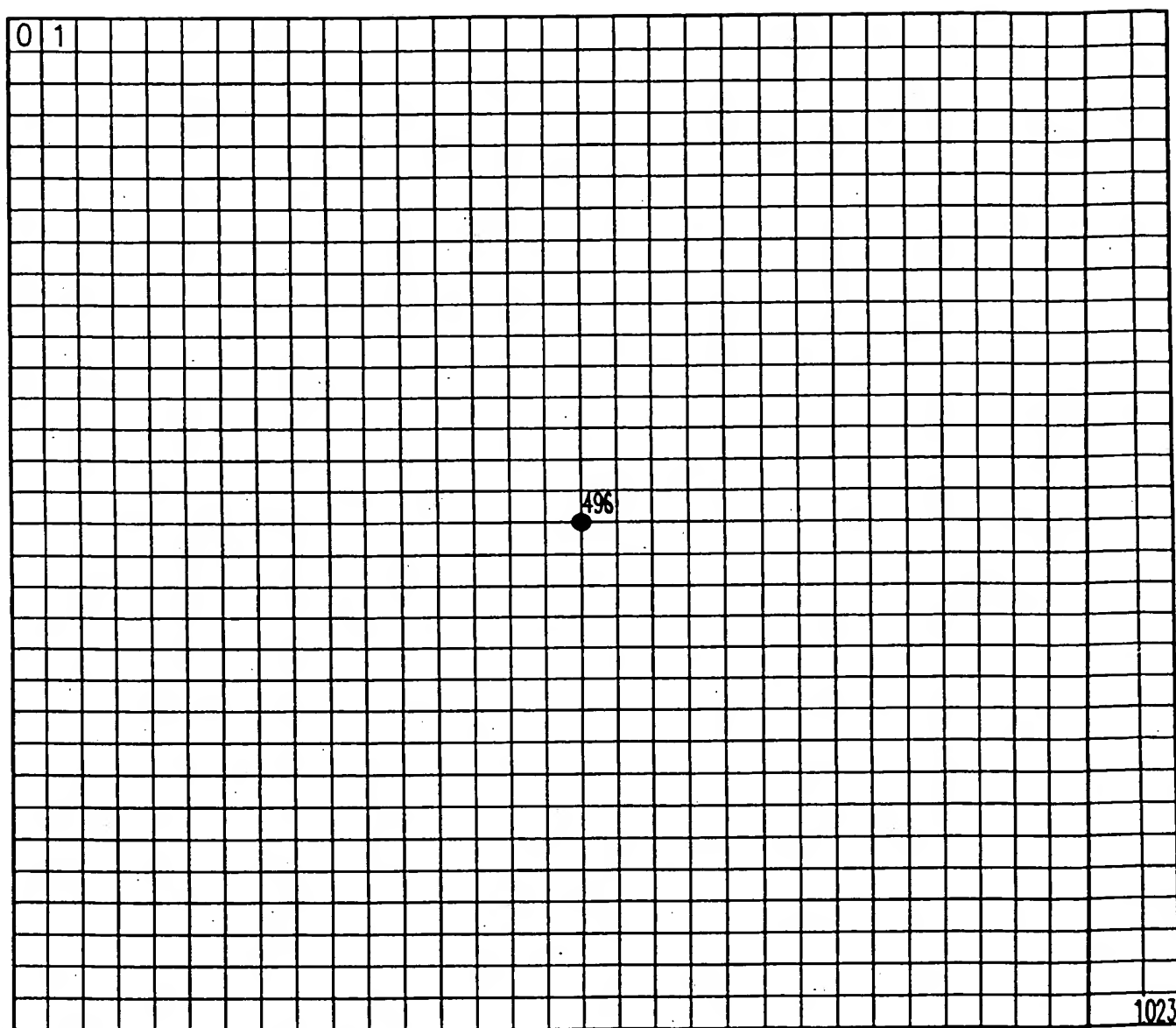


FIG. 12

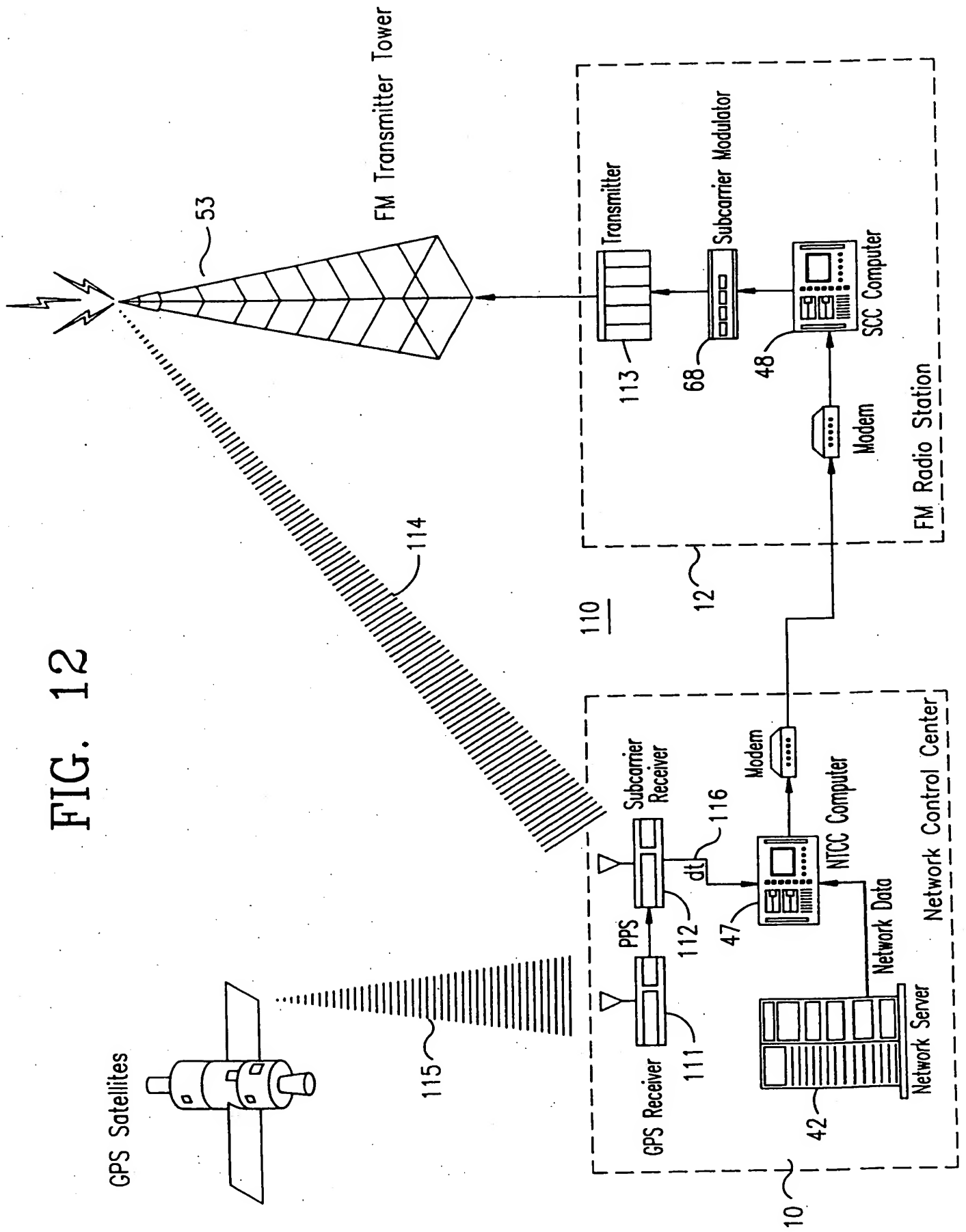


FIG. 13

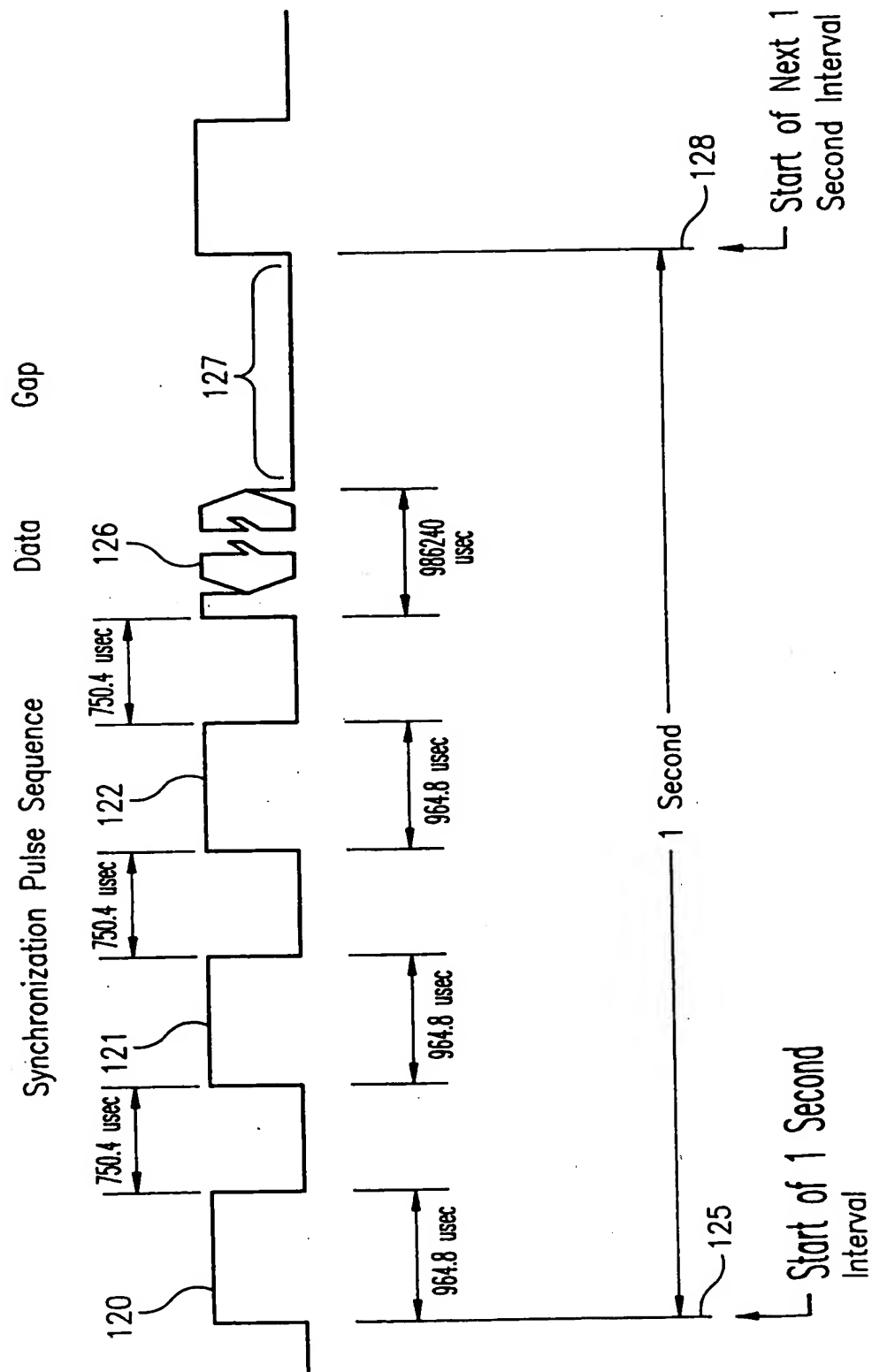


FIG. 14A
Initialization Mode

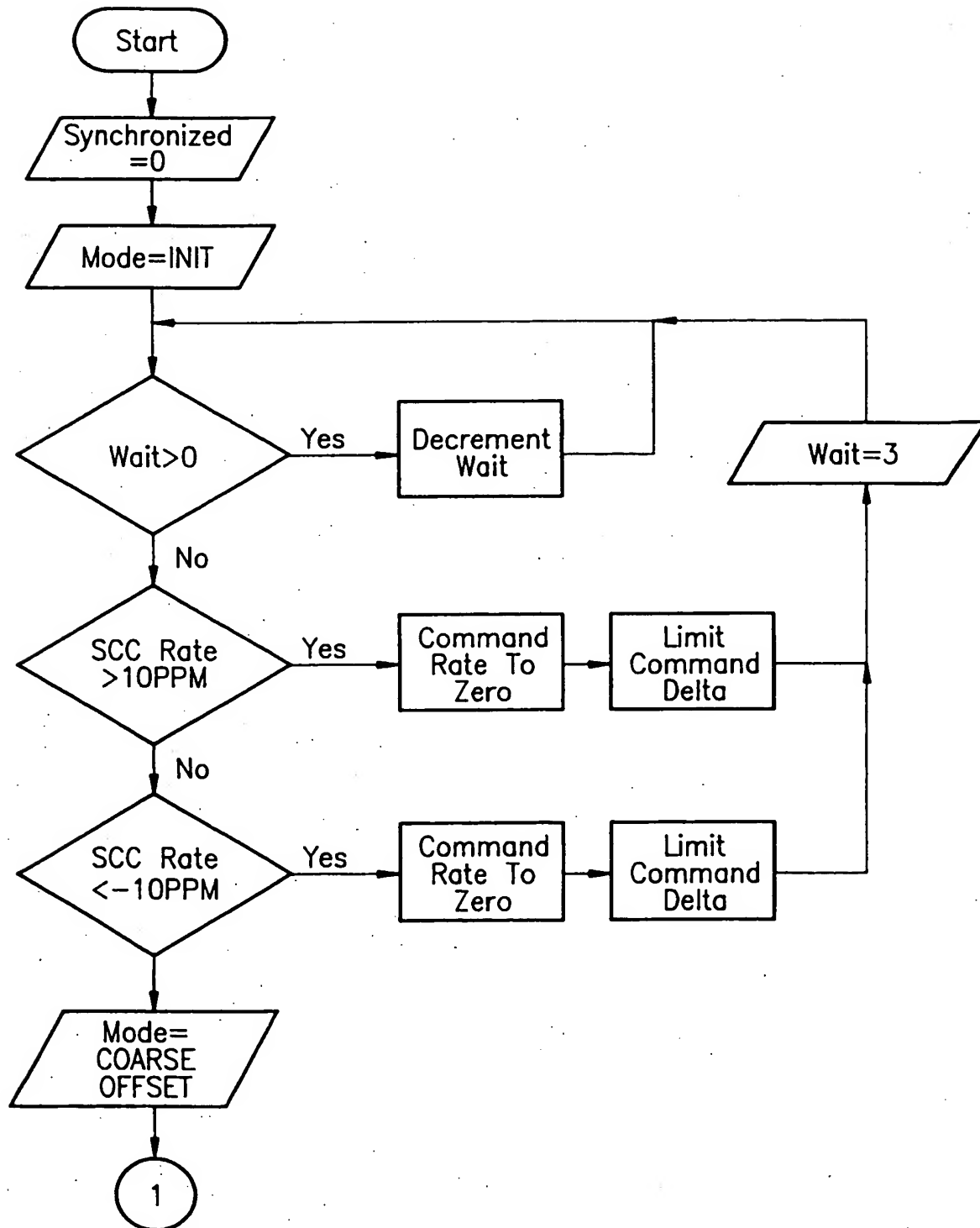
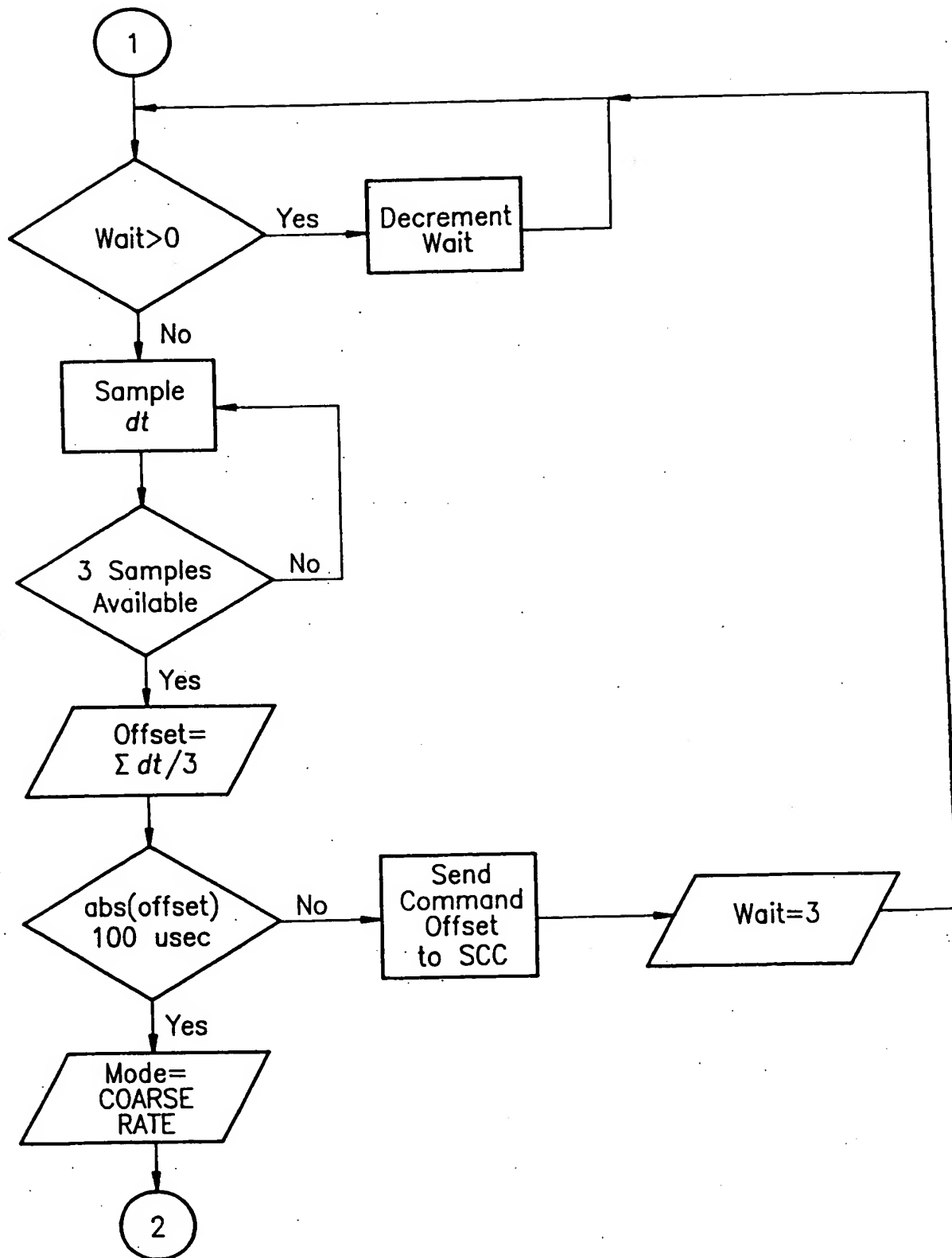
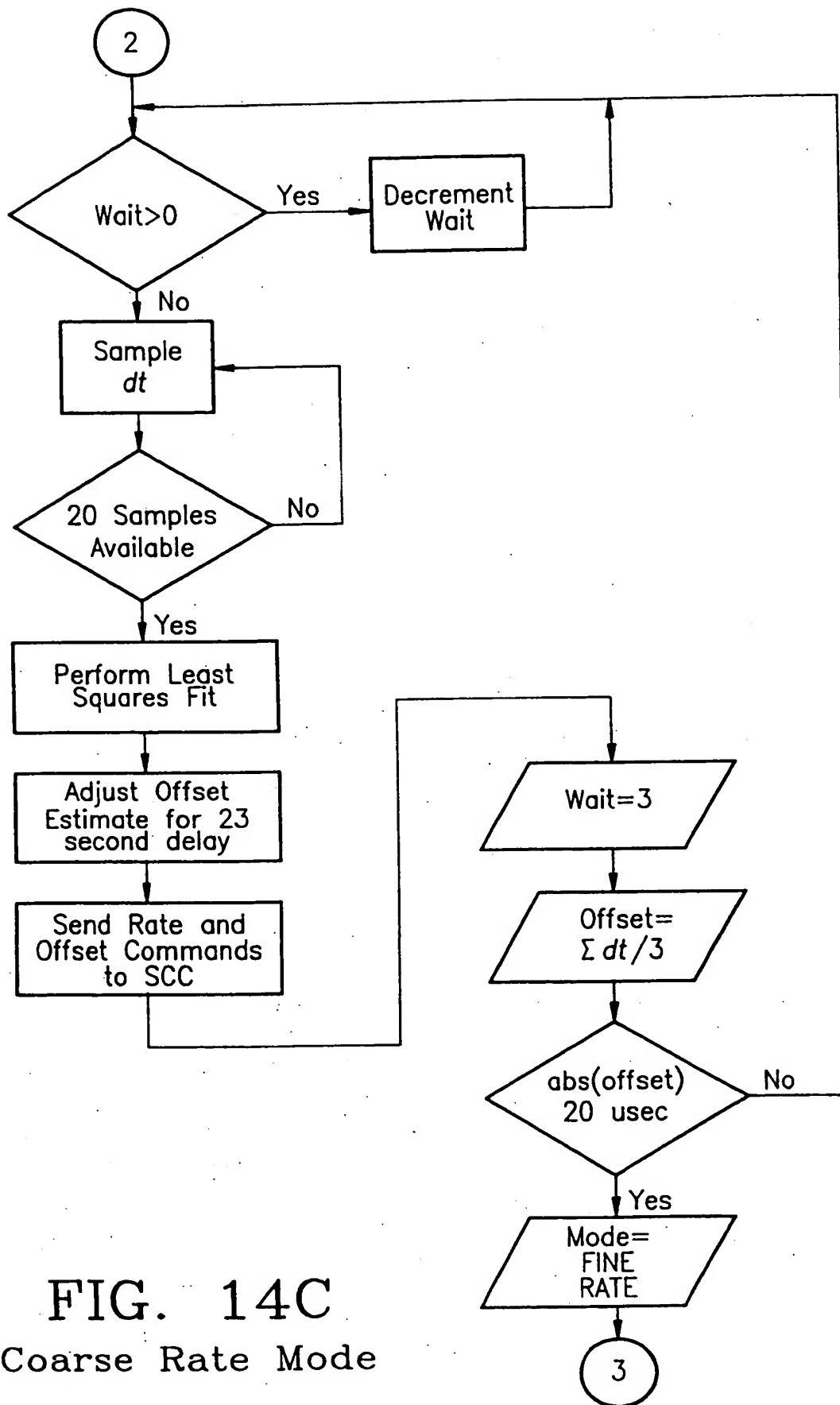


FIG. 14B
Coarse Offset Mode





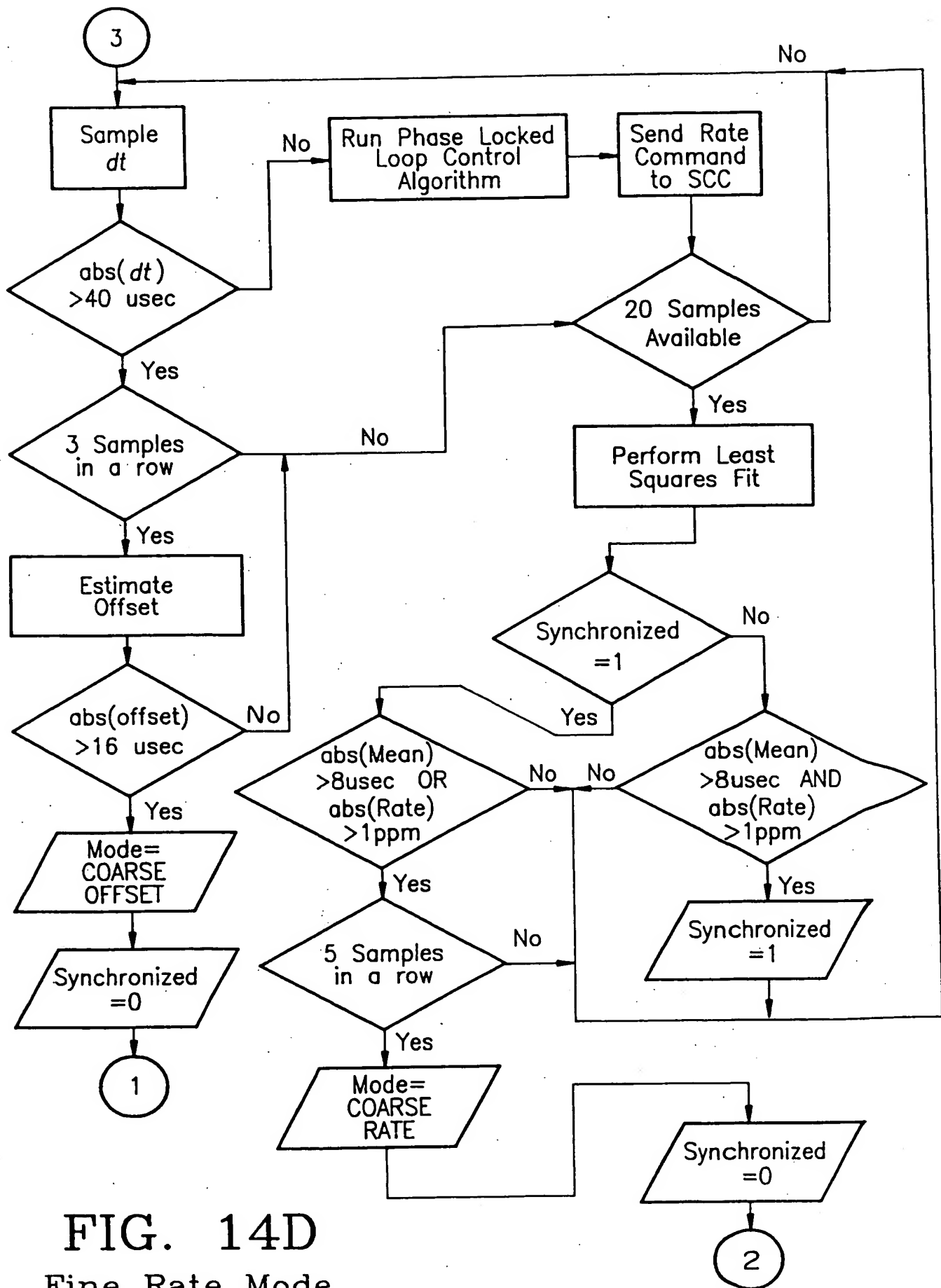


FIG. 14D
Fine Rate Mode

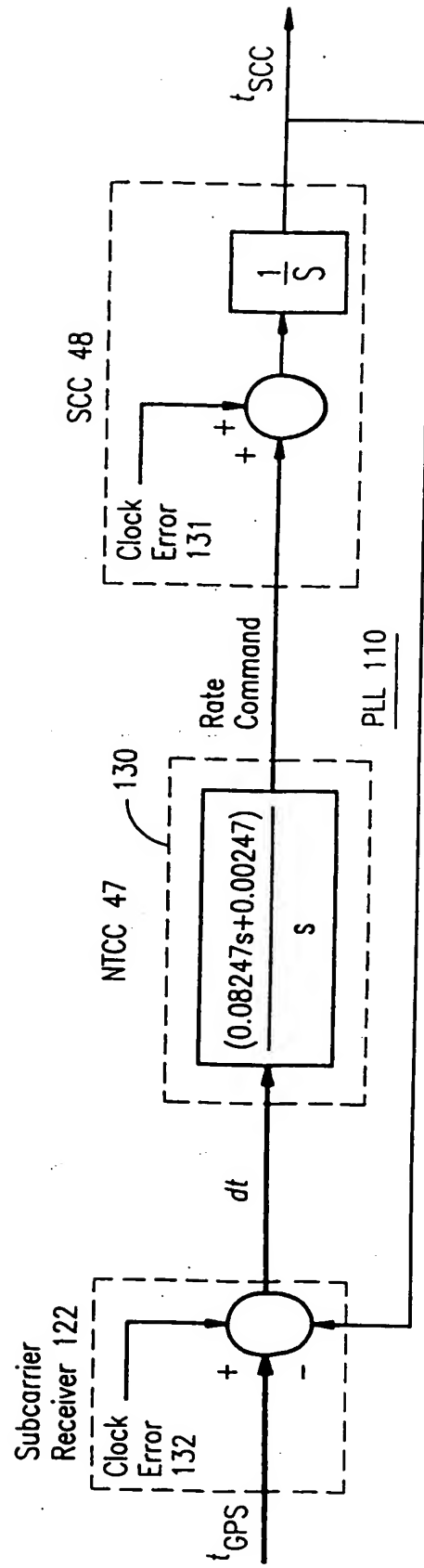


FIG. 15

CPU Card 149

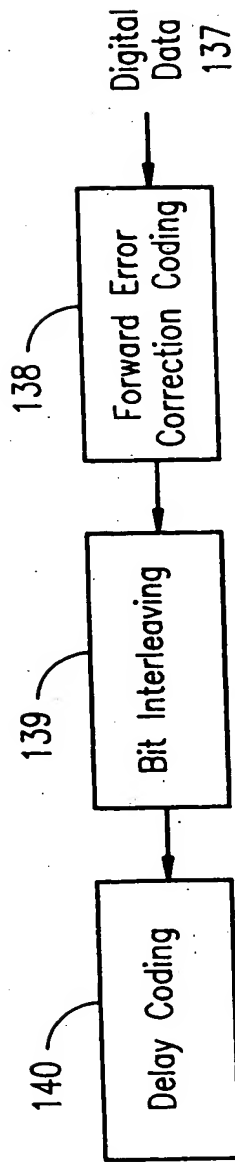
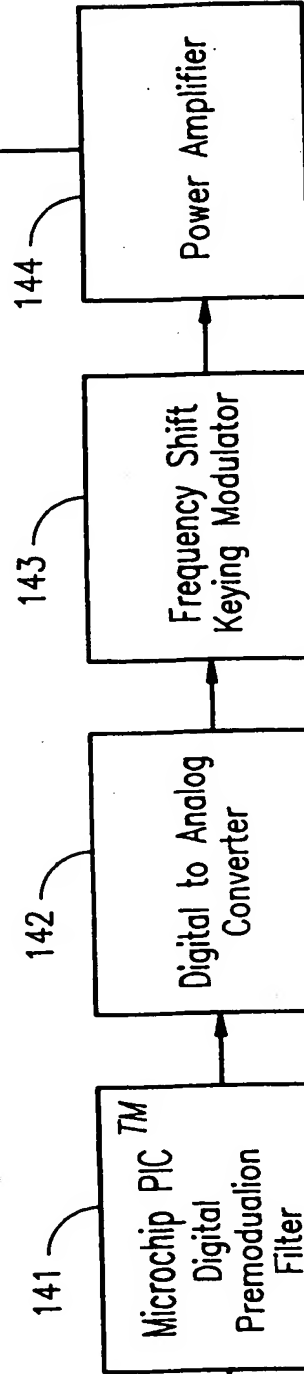


FIG. 16

Antenna

RF Card

145



		TDMA Transmit Bit Interleaving											Bits	
Words		11	10	9	8	7	6	5	4	3	2	1	0	
0	1/0 000	2/0 001	3/0 002	4/0 003	5/0 004	6/0 005	7/0 006	8/0 007	9/0 008	10/0 009	11/0 010	0/1 011		
1	2/1 012	3/1 013	4/1 014	5/1 015	6/1 016	7/1 017	8/1 018	9/1 019	10/1 020	11/1 021	0/2 022	1/2 023		
2	3/2 024	4/2 025	5/2 026	6/2 027	7/2 028	8/2 029	9/2 030	10/2 031	11/2 032	0/3 033	1/3 034	2/3 035		
3	4/3 036	5/3 037	6/3 038	7/3 039	8/3 040	9/3 041	10/3 042	11/3 043	0/4 044	1/4 045	2/4 046	3/4 047		
4	5/4 048	6/4 049	7/4 050	8/4 051	9/4 052	10/4 053	11/4 054	0/5 055	1/5 056	2/5 057	3/5 058	4/5 059		
5	6/5 060	7/5 061	8/5 062	9/5 063	10/5 064	11/5 065	0/6 066	1/6 067	2/6 068	3/6 069	4/6 070	5/6 071		
6	7/6 072	8/6 073	9/6 074	10/6 075	11/6 076	0/7 077	1/7 078	2/7 079	3/7 080	4/7 081	5/7 082	6/7 083		
7	8/7 084	9/7 085	10/7 086	11/7 087	0/8 088	1/8 089	2/8 090	3/8 091	4/8 092	5/8 093	6/8 094	7/8 095		
8	9/8 096	10/8 097	11/8 098	0/9 099	1/9 100	2/9 101	3/9 102	4/9 103	5/9 104	6/9 105	7/9 106	8/9 107		
9	10/9 108	11/9 109	0/10 110	1/10 111	2/10 112	3/10 113	4/10 114	5/10 115	6/10 116	7/10 117	8/10 118	9/10 119		
10	11/10 120	0/11 121	1/11 122	2/11 123	3/11 124	4/11 125	5/11 126	6/11 127	7/11 128	8/11 129	9/11 130	10/11 131		
11	0/0 132	1/1 133	2/2 134	3/3 135	4/4 136	5/5 137	6/6 138	7/7 139	8/8 140	9/9 141	10/10 142	11/11 143		

WB indicates bit, B, of the original code word, W.

Words are transmitted MSB first; the small number indicates transmit bit order

FIG. 17

FIG. 18A

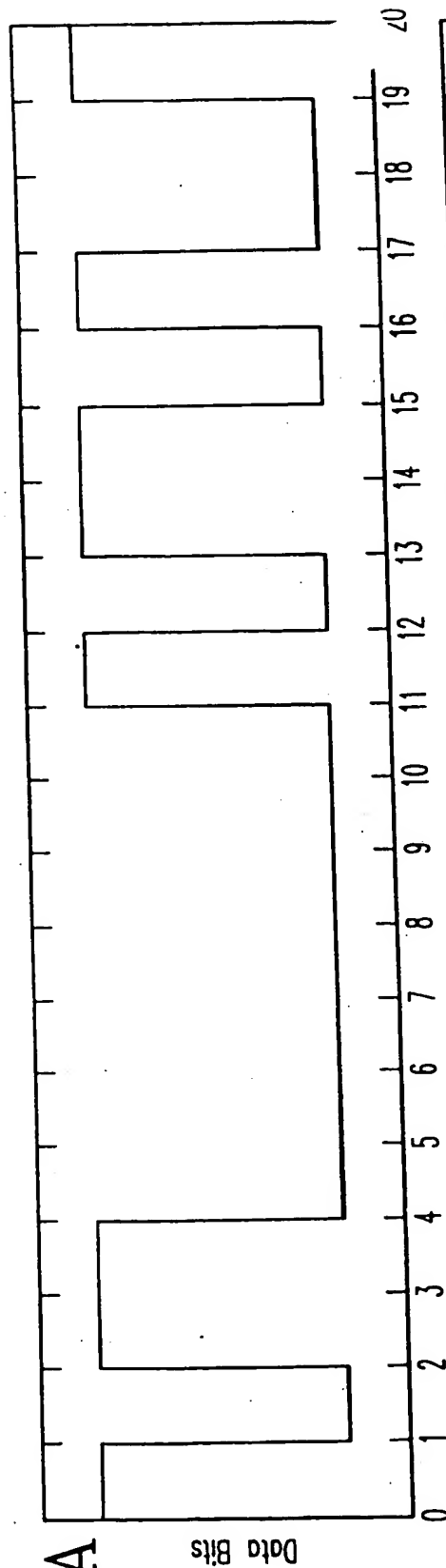


FIG. 18B

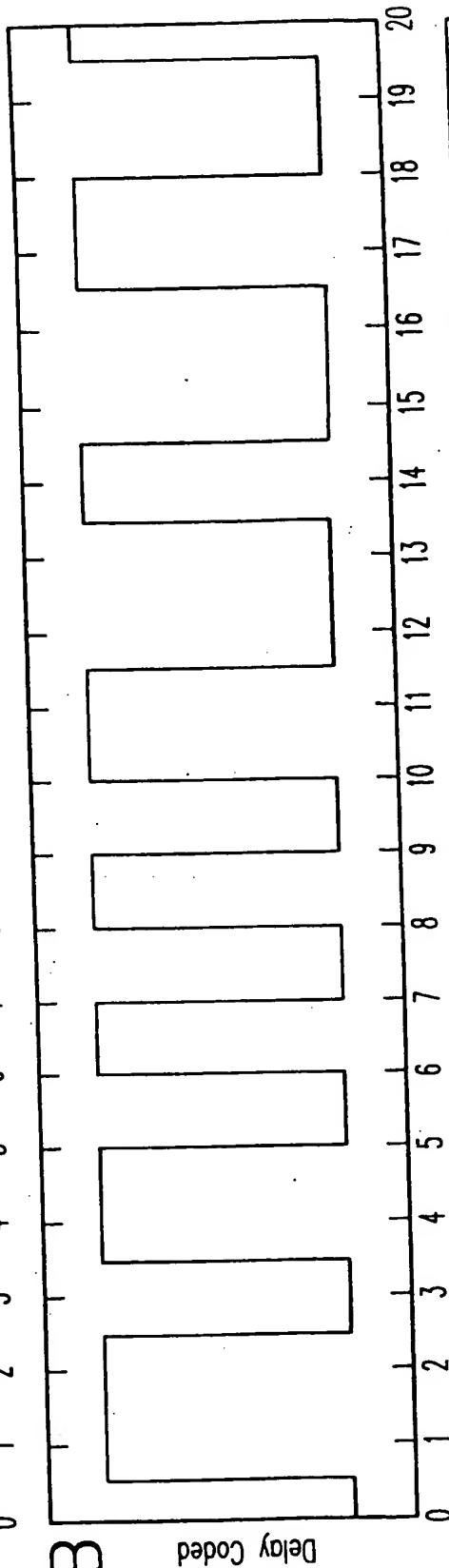
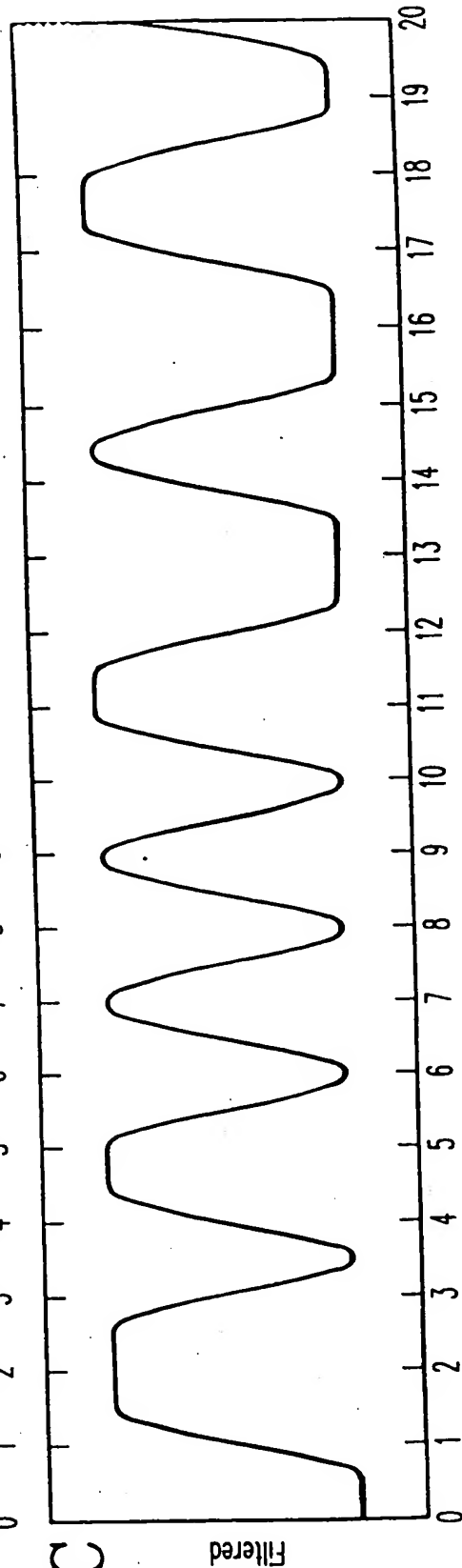


FIG. 18C



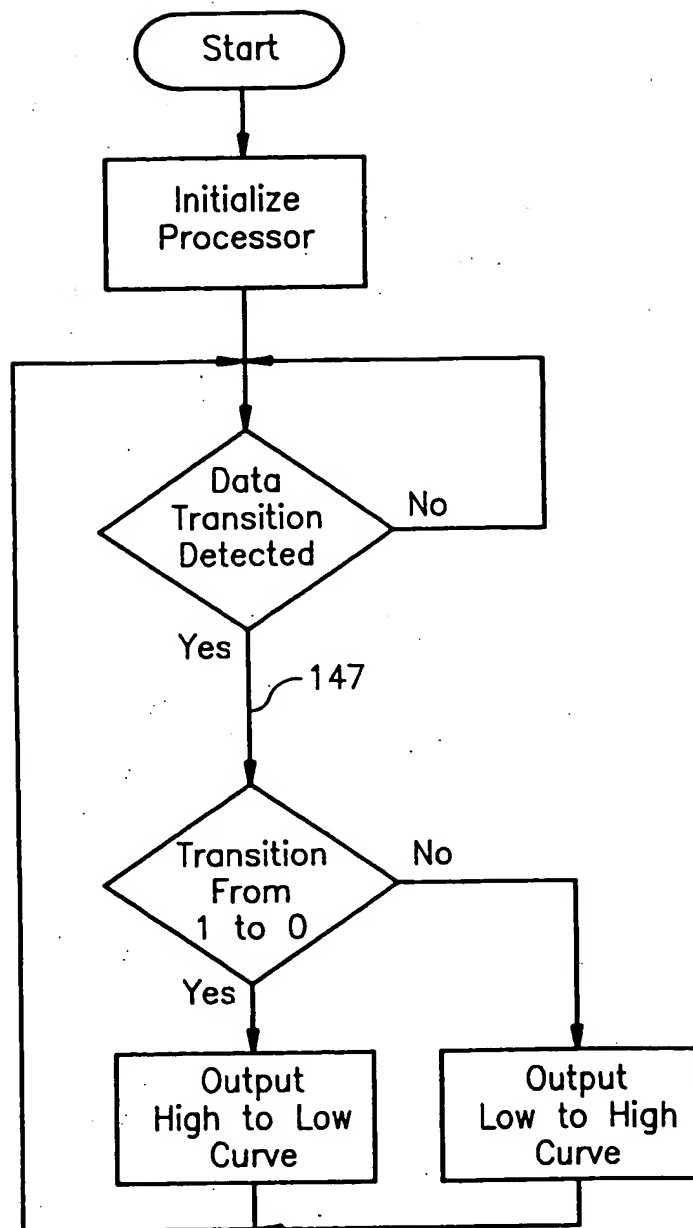


FIG. 19

Relative Power in Baseband Signal Before & After Encoding/Prefiltering

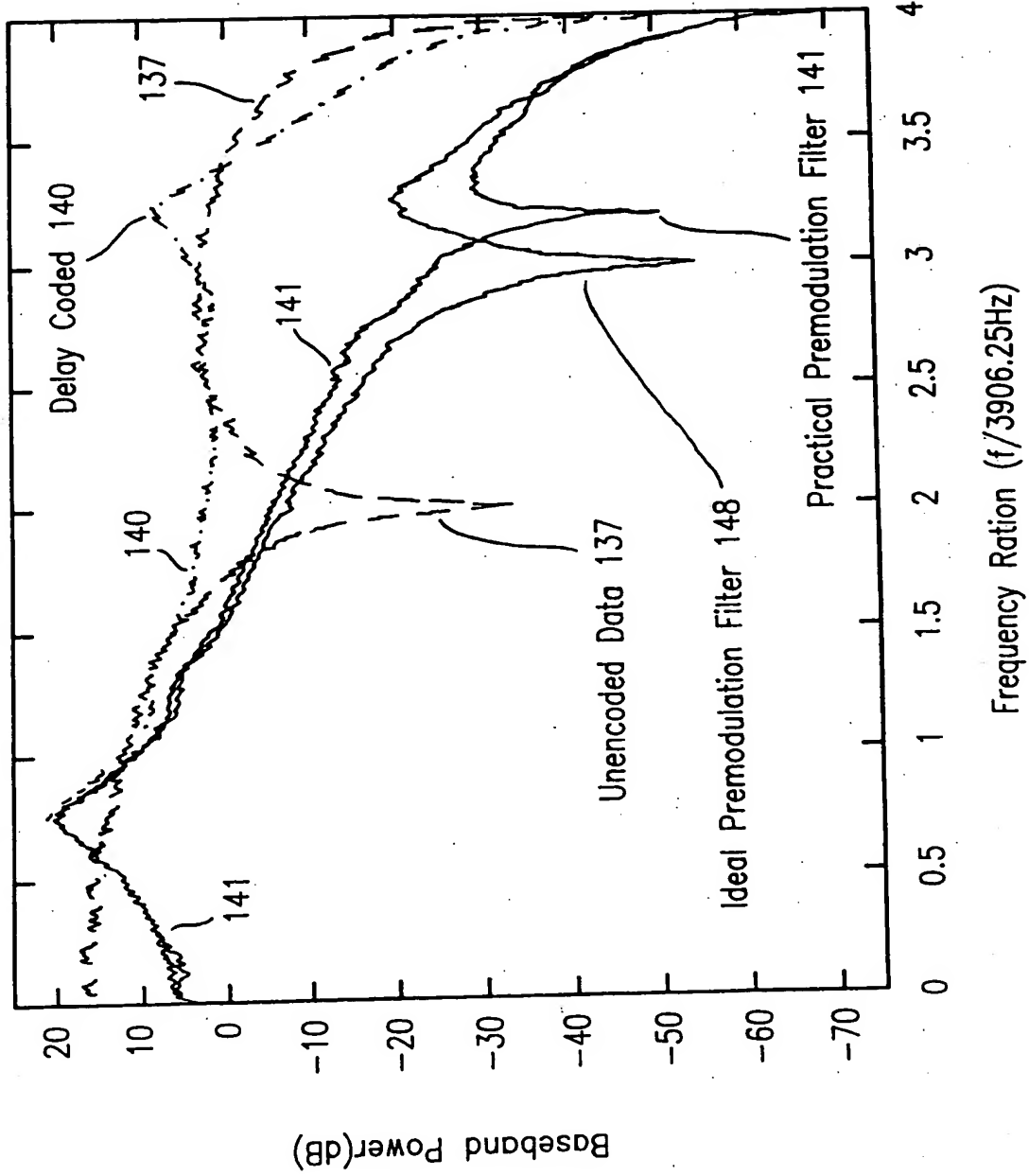


FIG. 20

FIG. 21

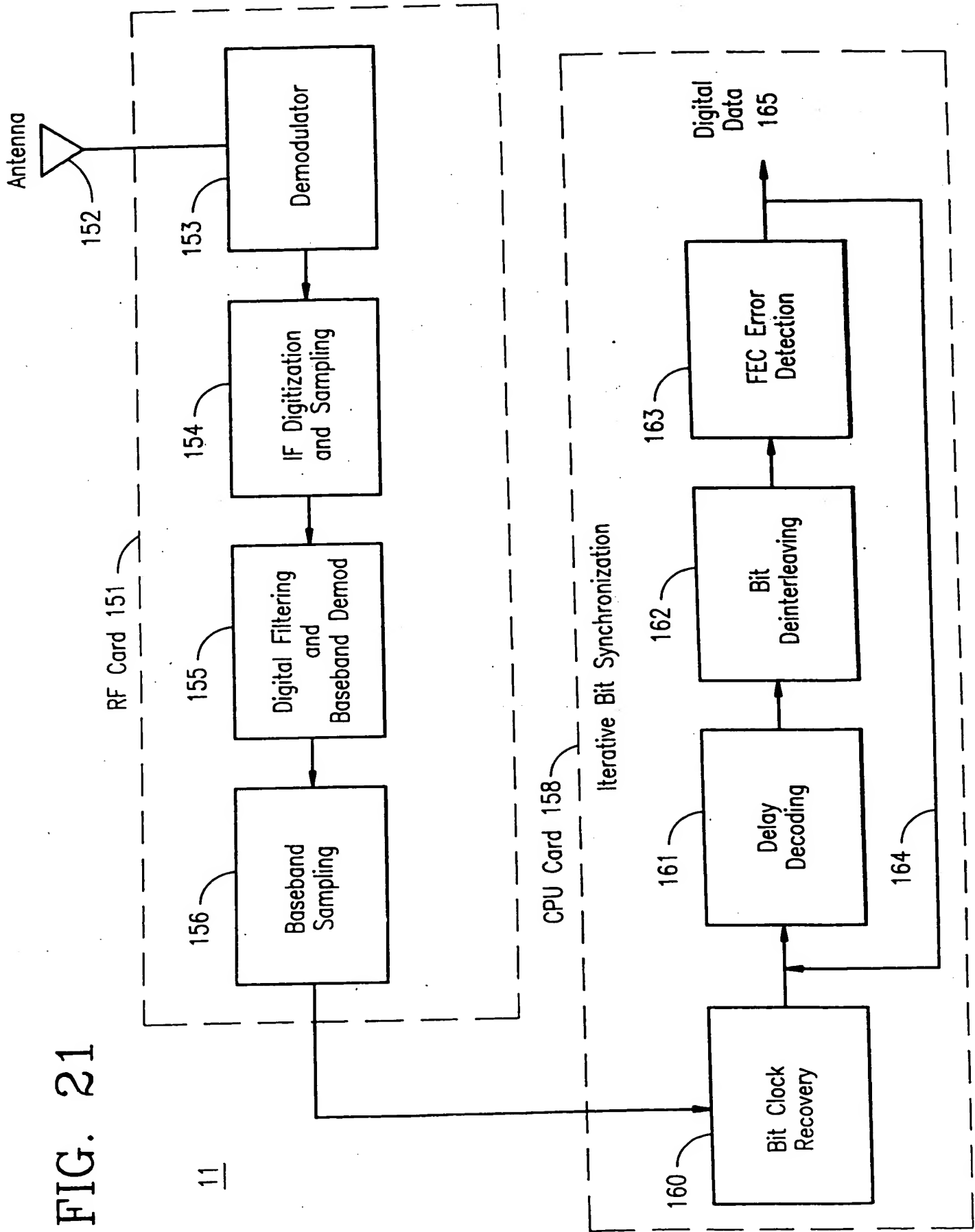
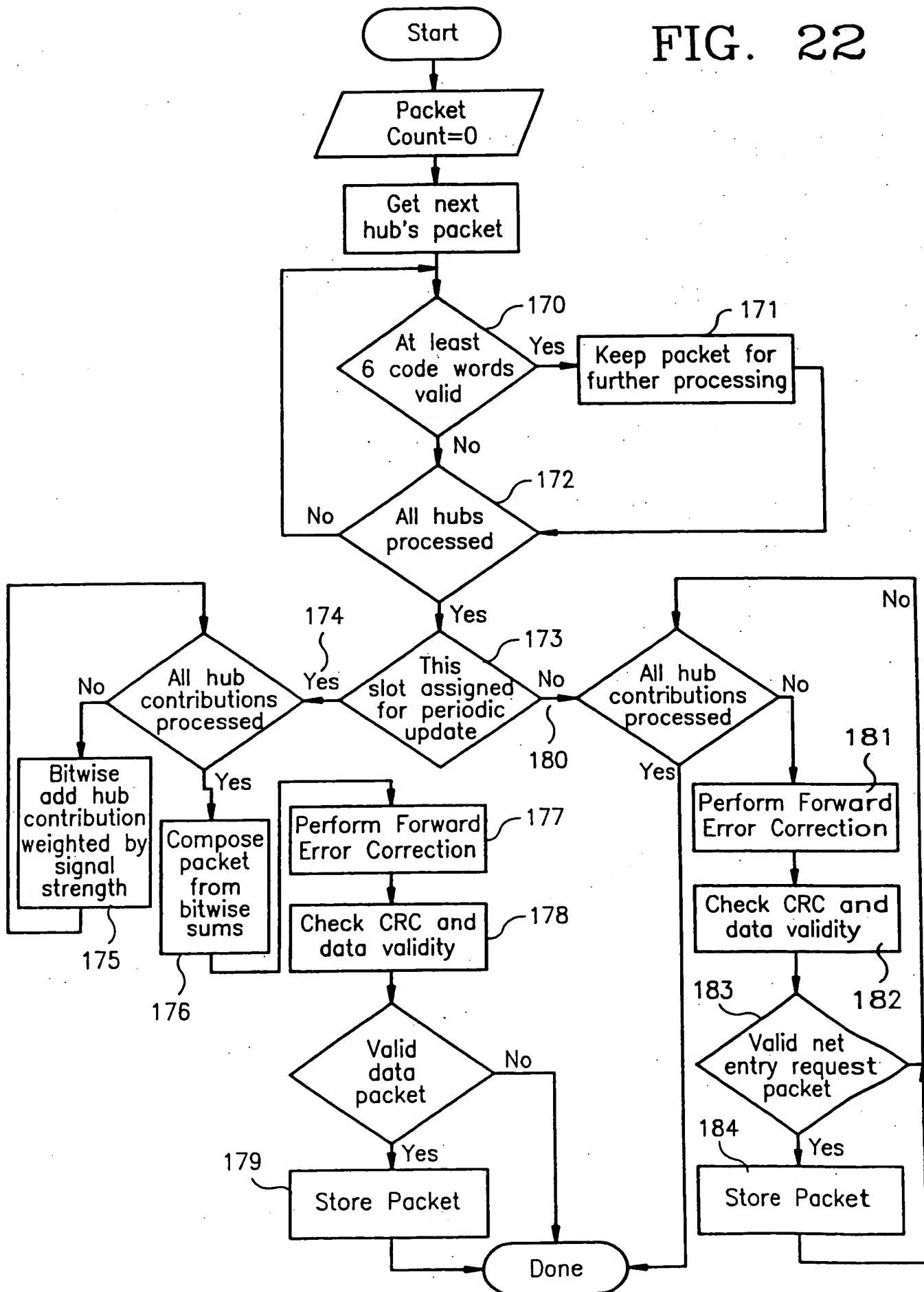


FIG. 22



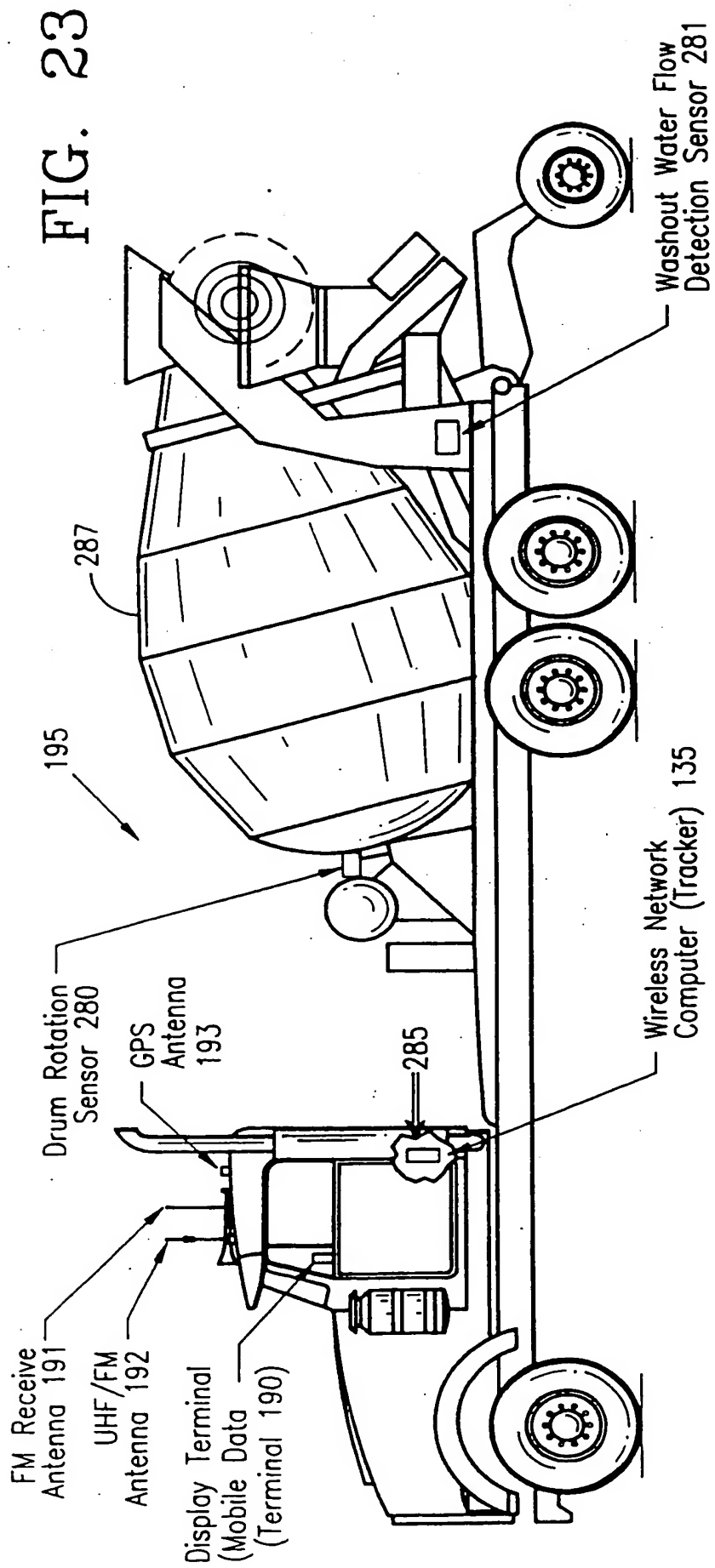
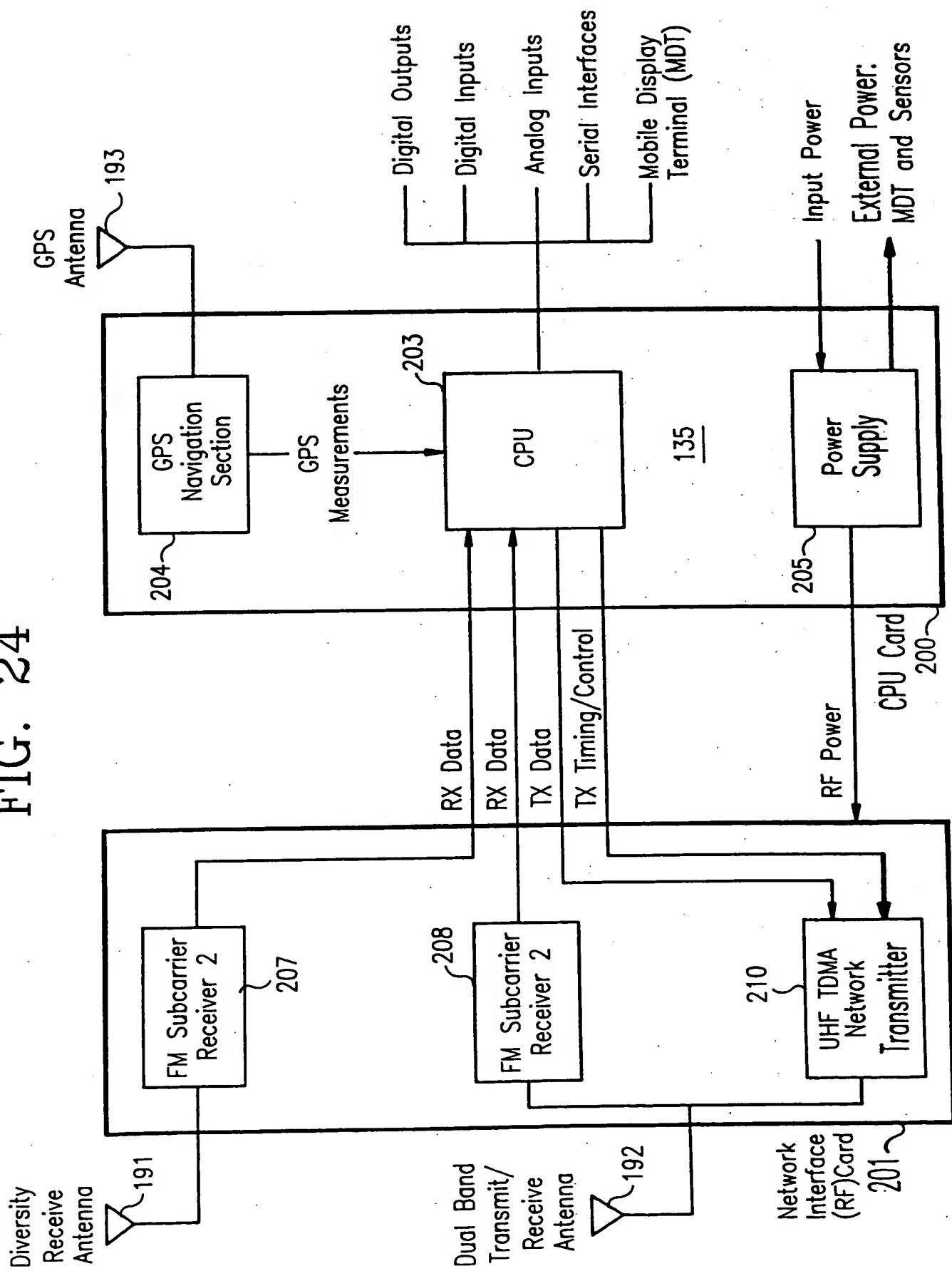


FIG. 24



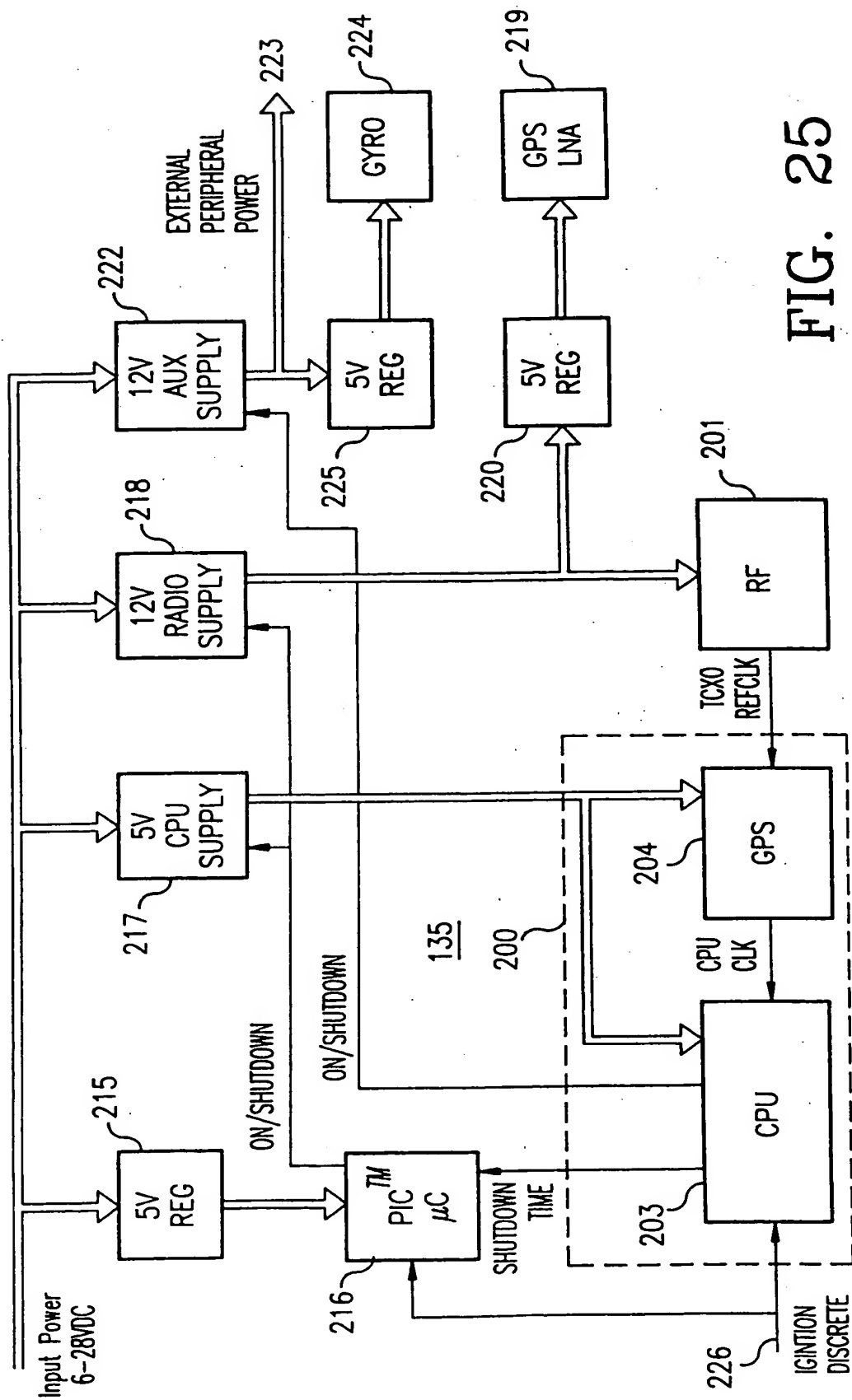


FIG. 25

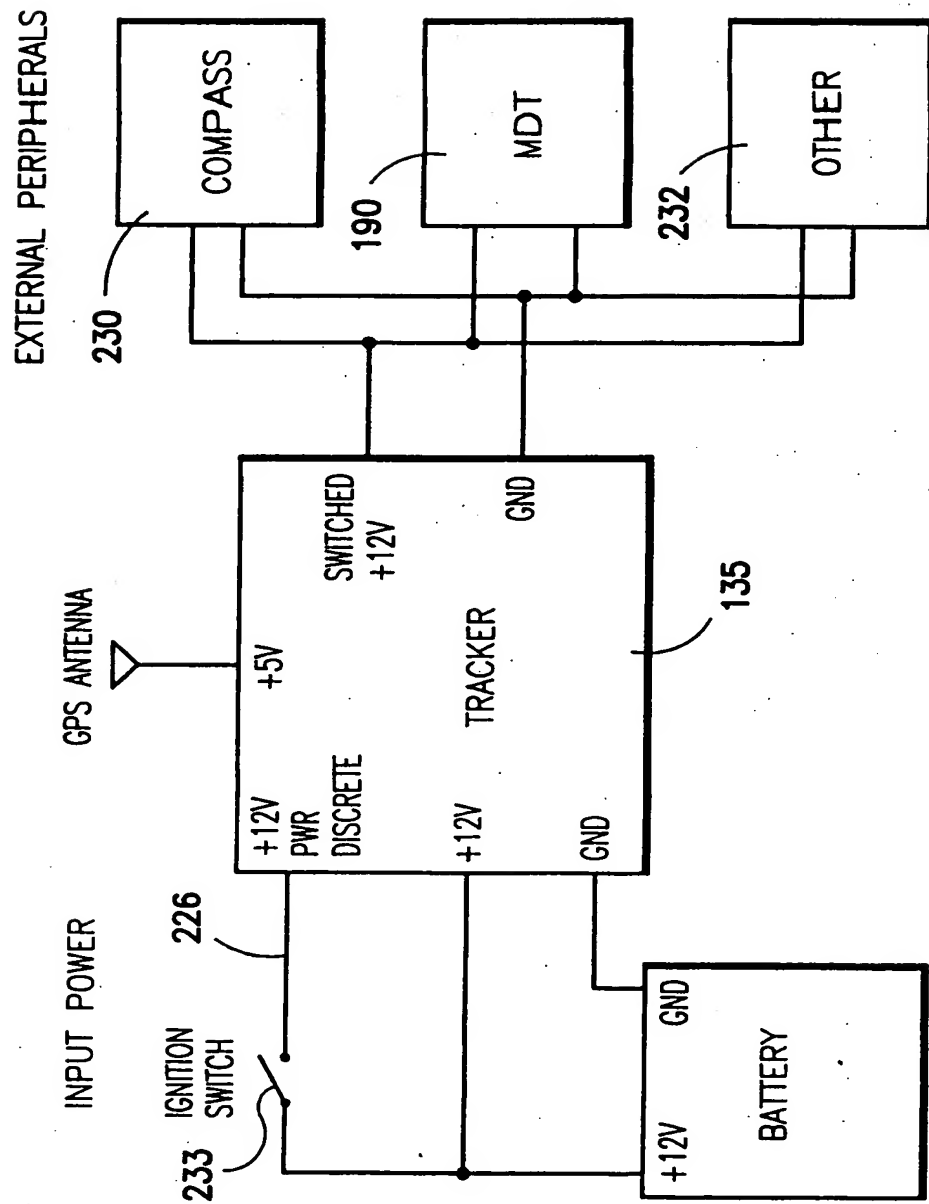


FIG. 26

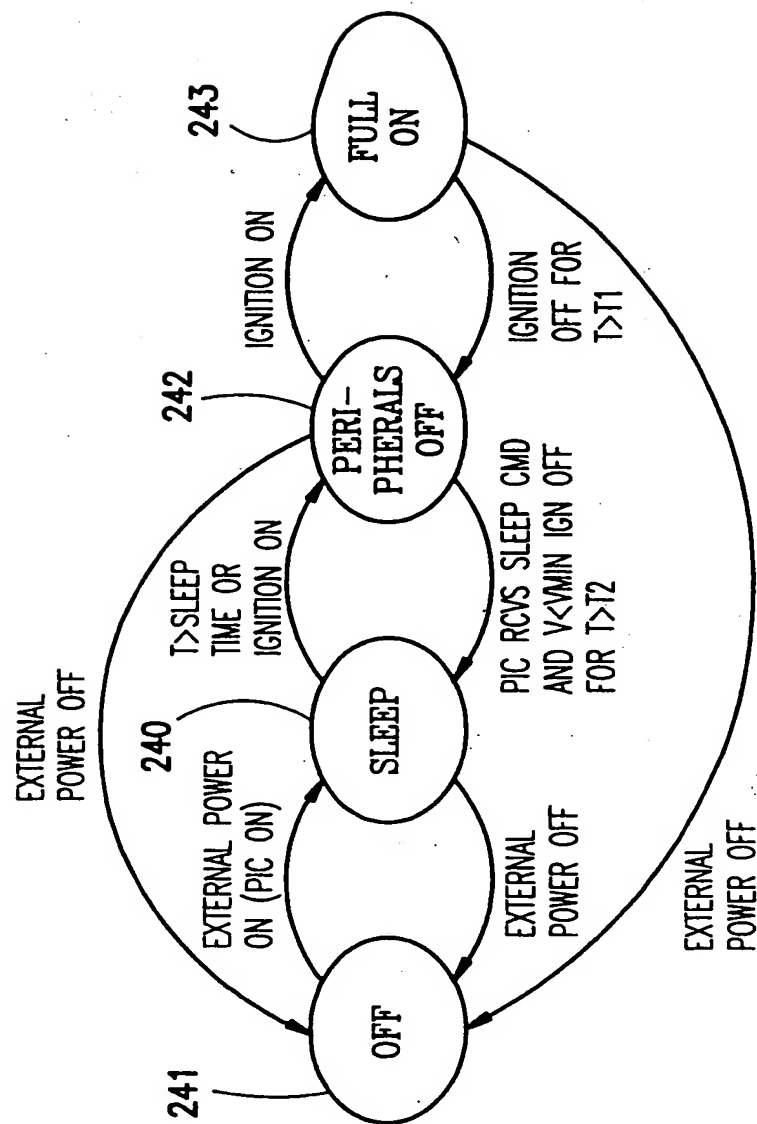


FIG. 27

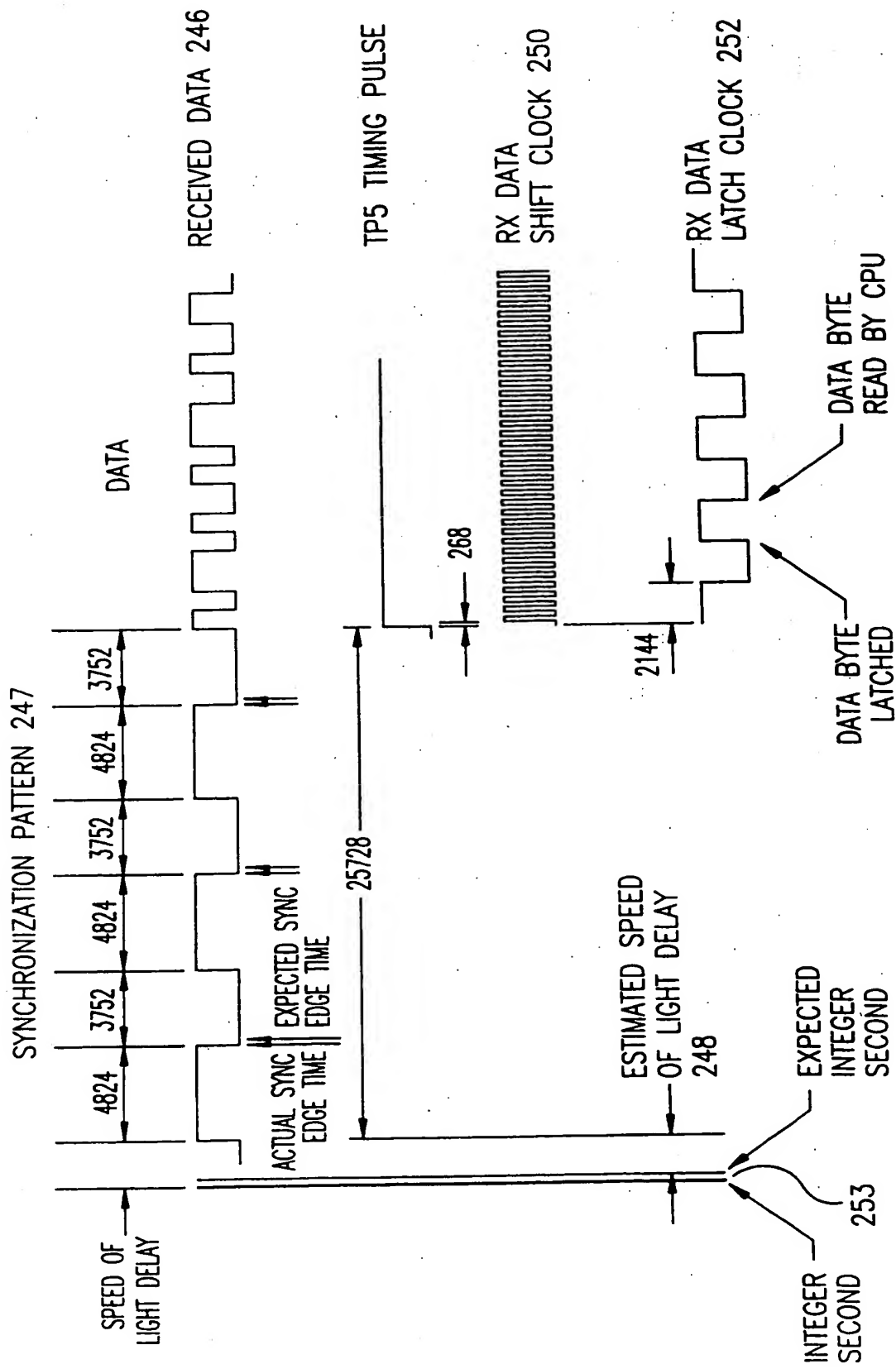
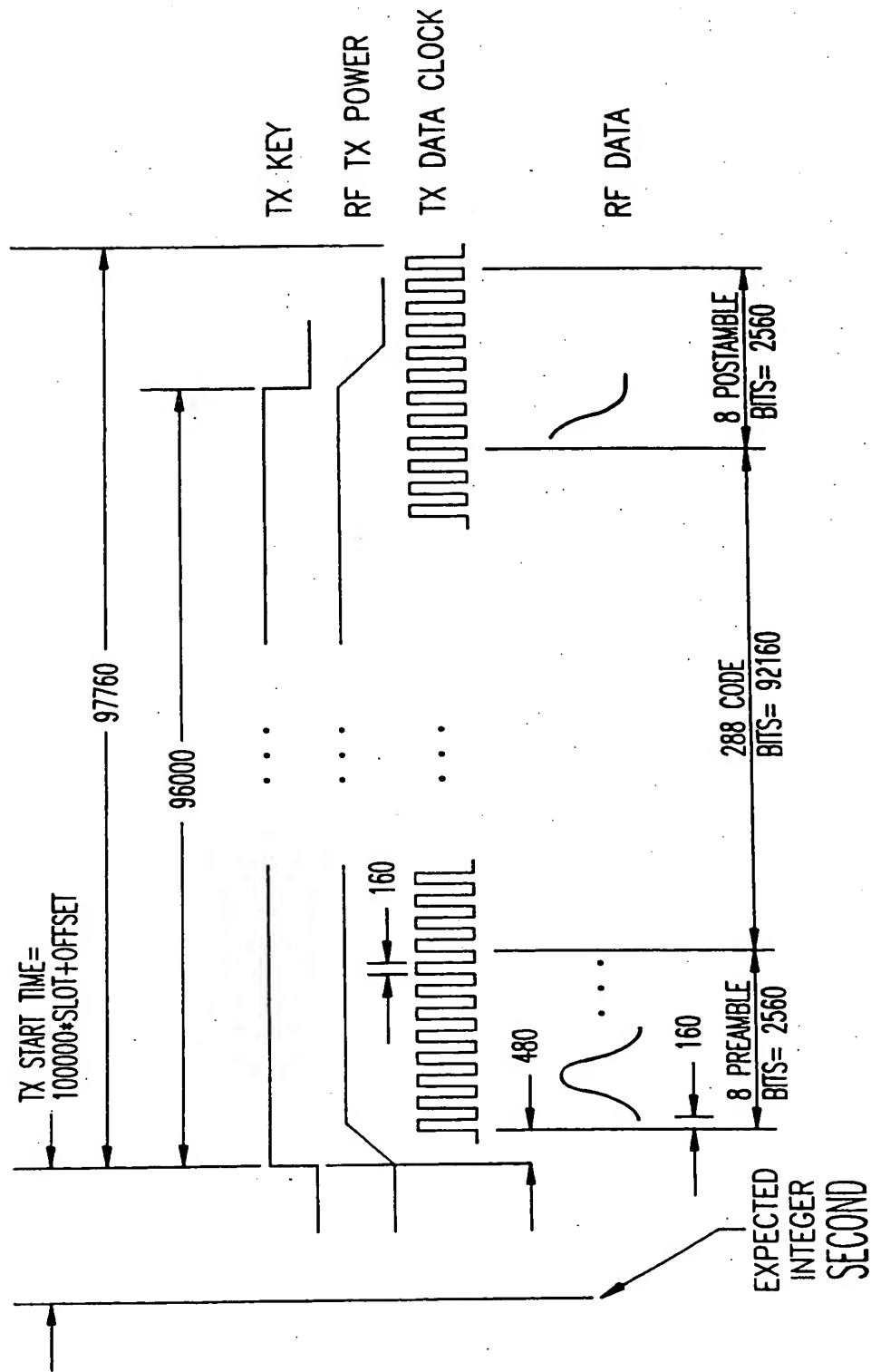


FIG. 28

FIG. 29



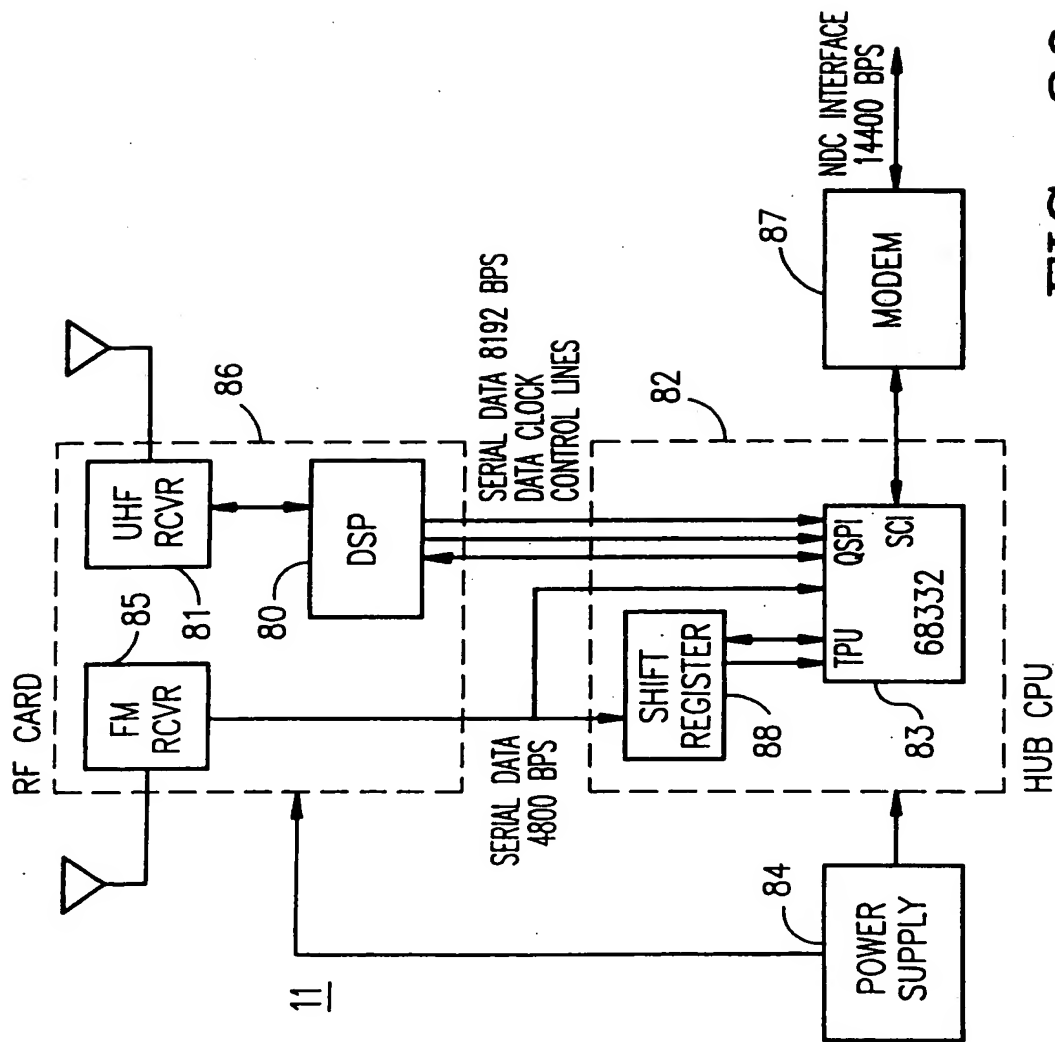


FIG. 30

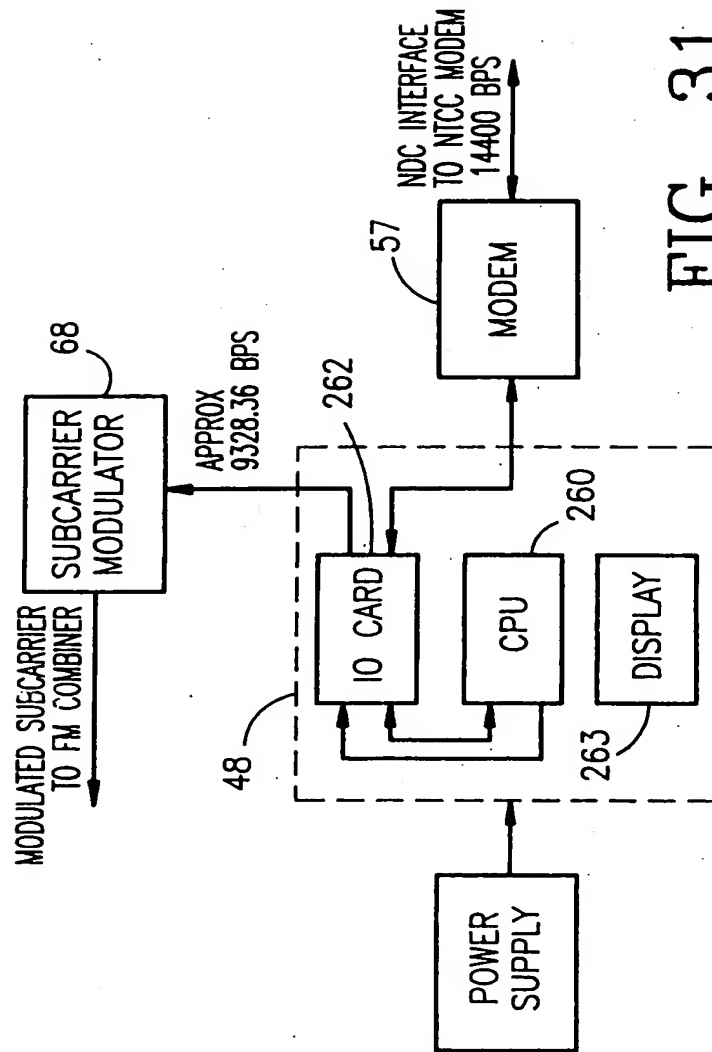
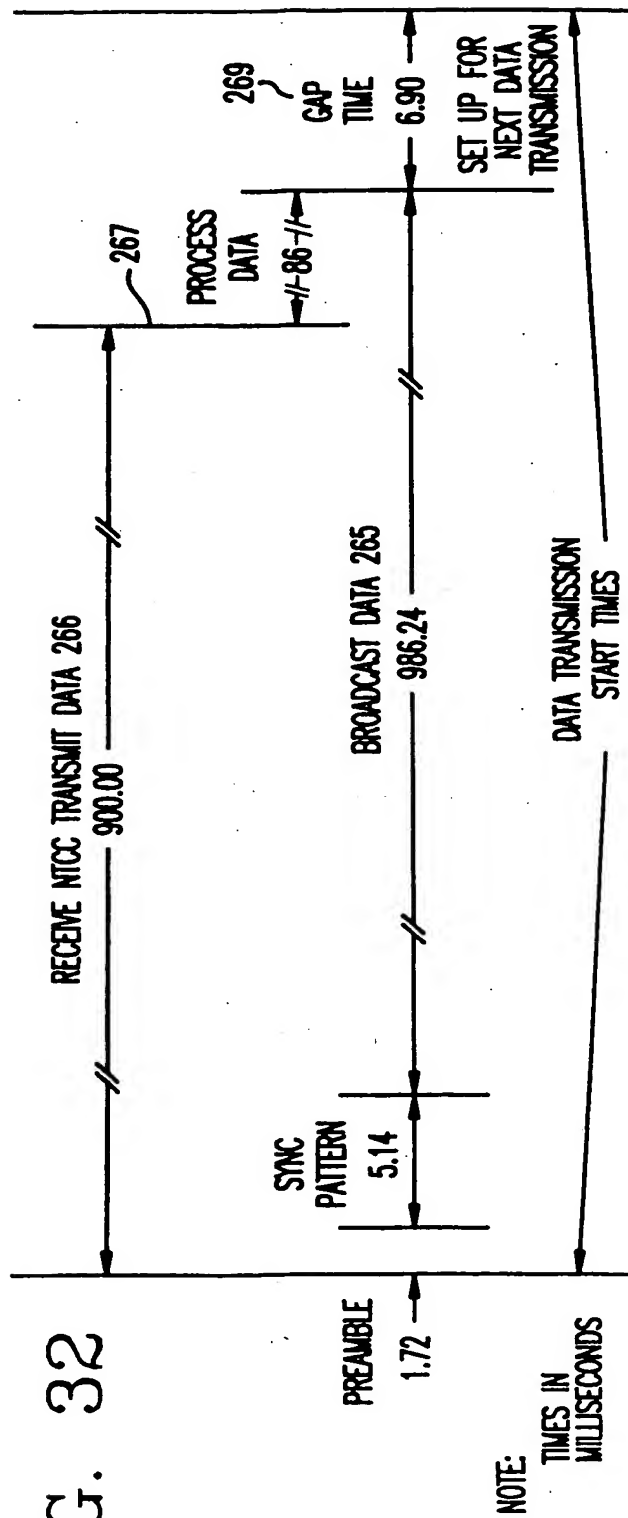


FIG. 31

FIG. 32



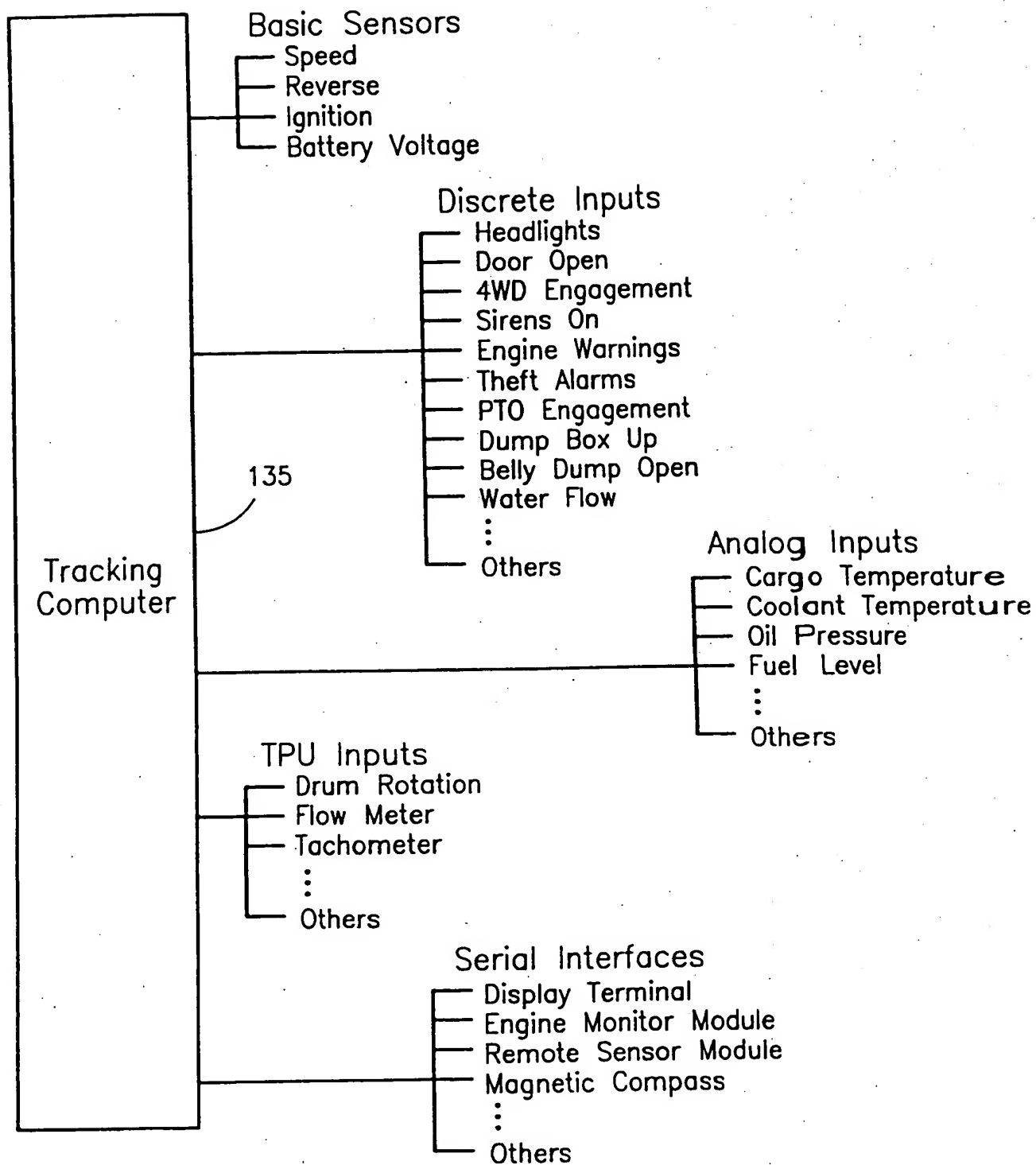
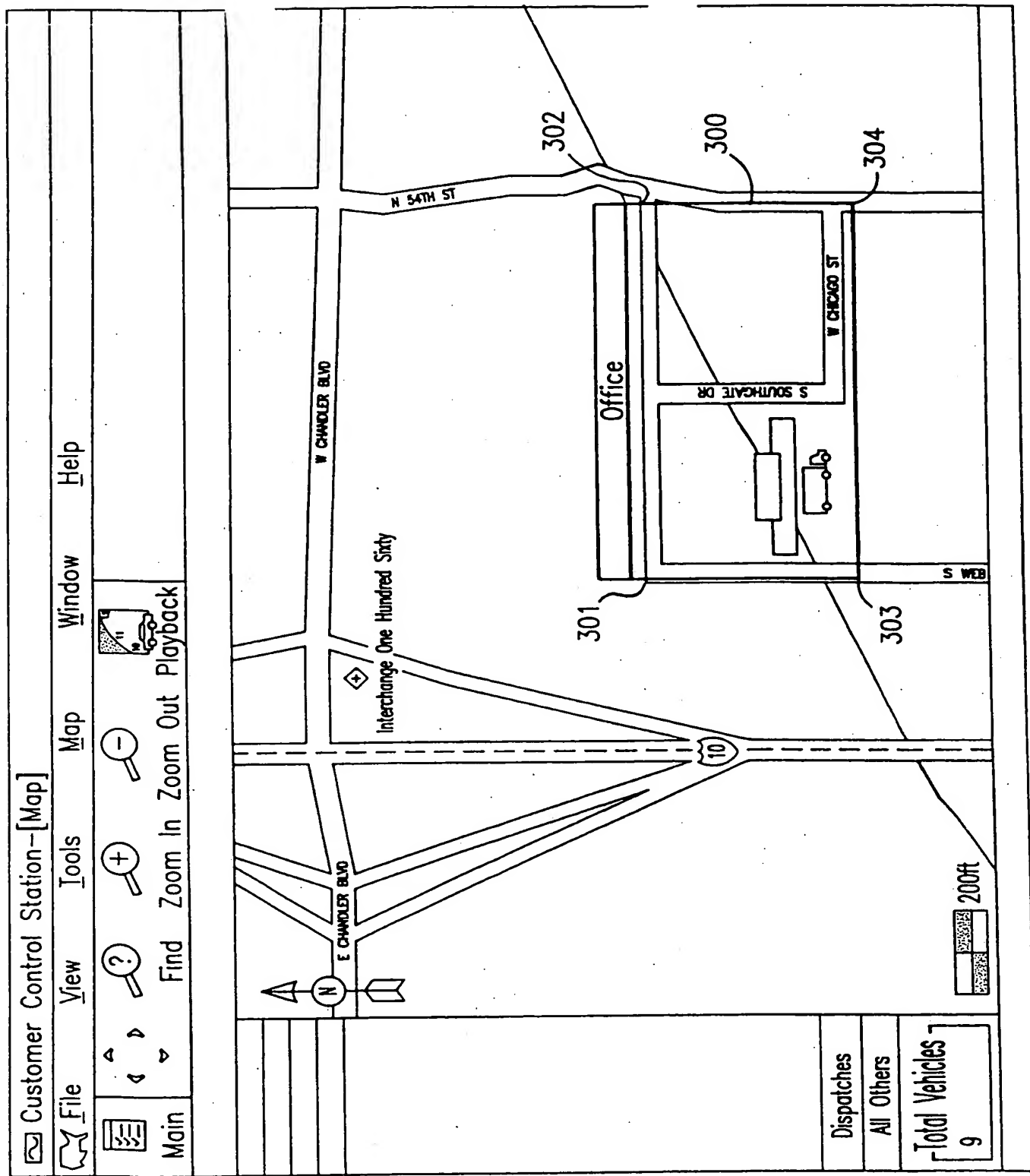


FIG. 33

FIG. 34



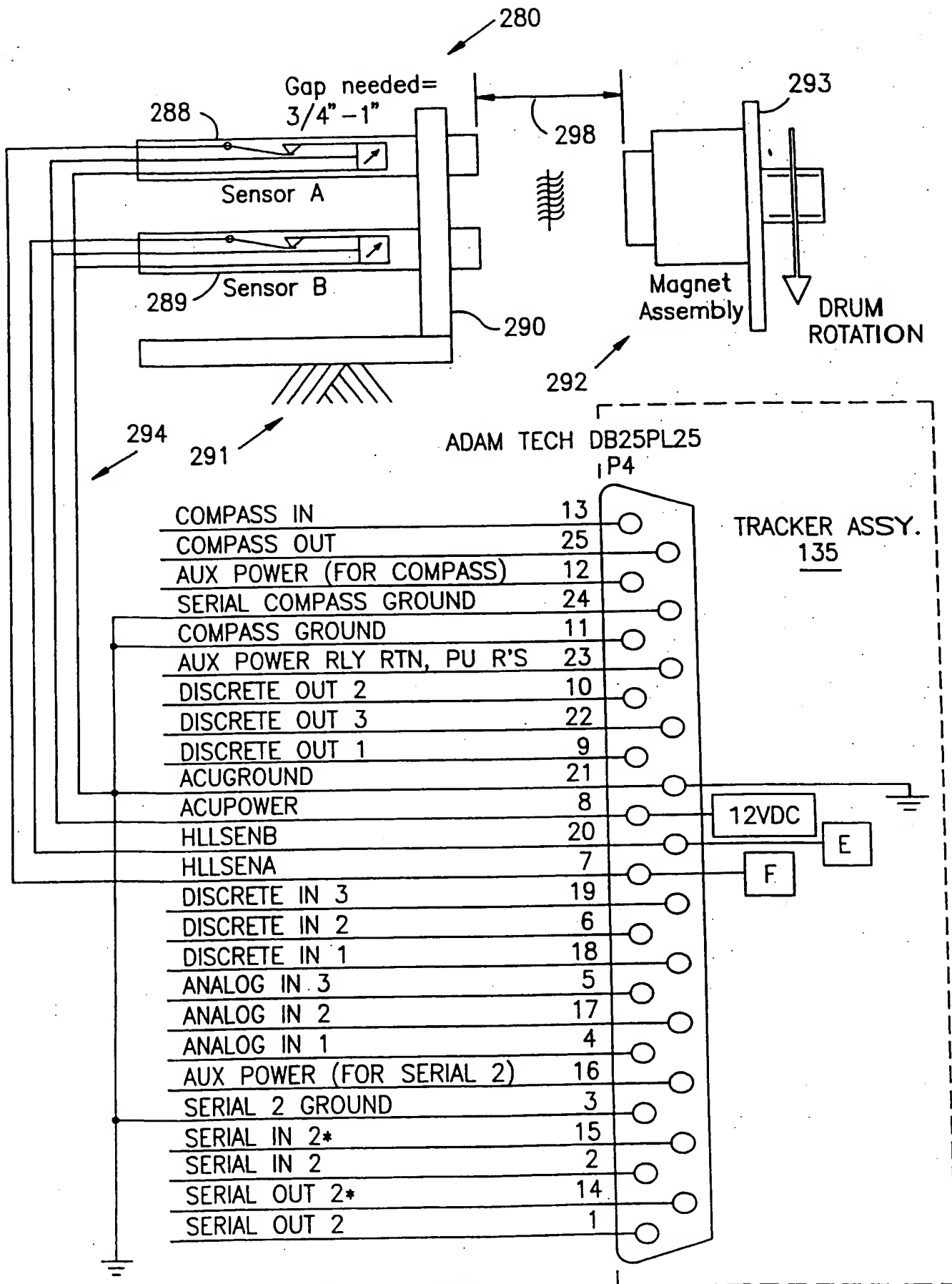


FIG. 35

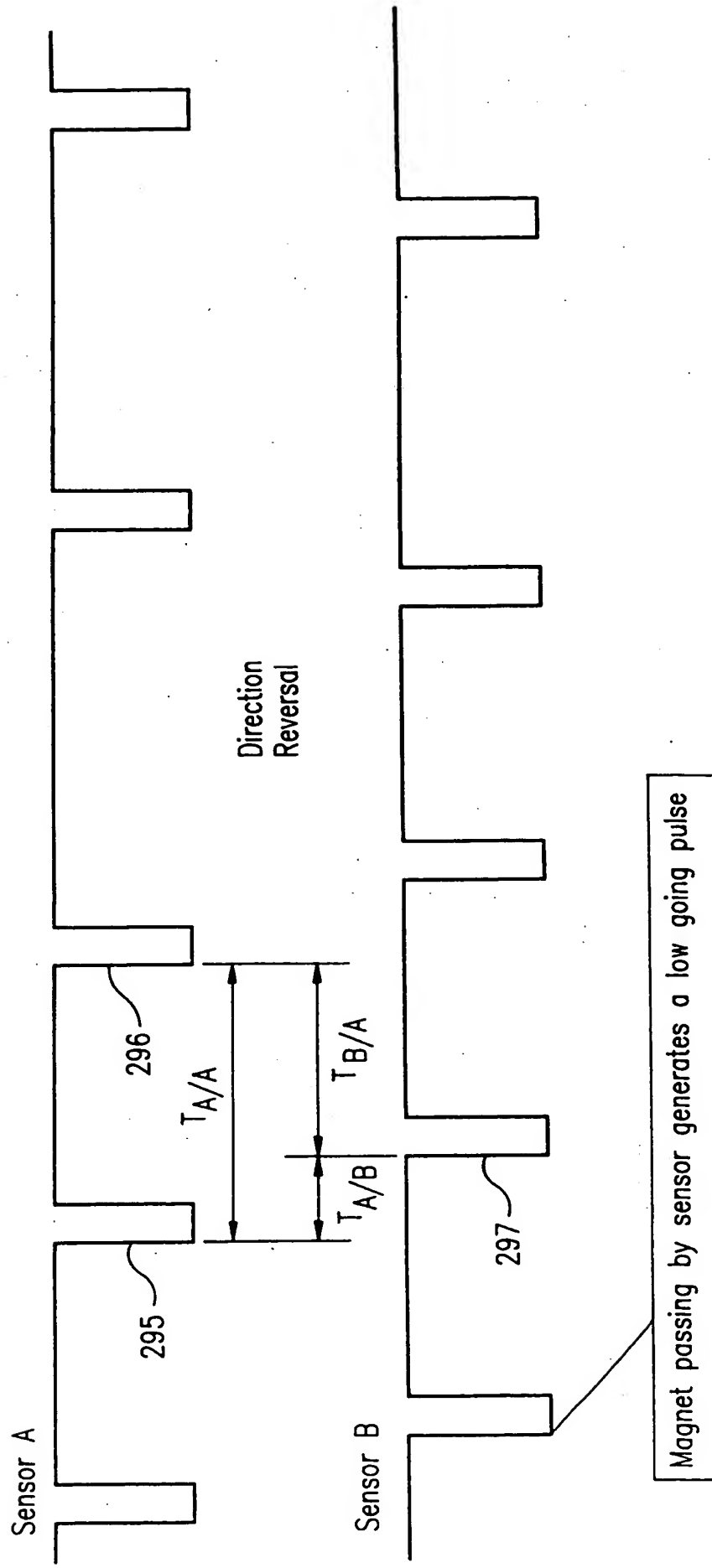


FIG. 36

FIG. 37

The flowchart illustrates the control logic for a vehicle, likely a waste management vehicle, based on its location (GPS), speed, and drum status. The states and transitions are as follows:

- UNKNOWN** (310) transitions to **AT PLANT** (311) when **GPS=PLANT**.
- AT PLANT** (311) is a central state with multiple outgoing transitions:
 - To **IGN ON** (310) when **GPS=PLANT & SPEED < 15**.
 - To **IGN OFF** (310) when **IGN ON**.
 - To **WASH RACK** (314) when **SPEED < 2 & DRUM=F CHRG for T=60**.
 - To **LOADING** (312) when **SPEED < 2 & DRUM=F CHRG for T=60**.
 - To **LEAVE PLANT** (316) when **GPS != PLANT & SPEED < 15**.
 - To **IN ROUTE** (318) when **GPS != PLANT & SPEED < 15**.
 - To **WASH** (331) when **GPS=PLANT & SPEED < 15**.
 - To **LEAVE JOB** (333) when **GPS=PLANT & SPEED < 15**.
 - To **POURING** (322) when **GPS=PLANT & SPEED < 15**.
 - To **END POUR** (324) when **GPS=PLANT & SPEED < 15**.
- LOADING** (312) transitions to **WASH RACK** (314) and then to another **LOADING** (313).
- LEAVE PLANT** (316) transitions to **IN ROUTE** (318).
- IN ROUTE** (318) transitions to **ARRIVE JOB** (319) when **DRUM=DISCHARGE for T=10**.
- ARRIVE JOB** (319) transitions to **START POUR** (321) when **GPS=JOB BOX & SPEED < 5 for (T=60 or / DOOR OPEN)**.
- START POUR** (321) transitions to **POURING** (322) when **DRUM=DISCHARGE for T=10**.
- POURING** (322) transitions to **END POUR** (324) when **DRUM=FAST DISCHARGE for T=10**.
- END POUR** (324) transitions to **WASH** (330) when **WATER > 60**.
- WASH** (330) transitions to **LEAVE JOB** (332) when **GPS=PLANT & SPEED < 15**.
- LEAVE JOB** (332) transitions to **WASH** (331) when **GPS=PLANT & SPEED < 15**.
- WASH** (331) transitions to **LEAVE JOB** (333) when **GPS=PLANT & SPEED < 15**.
- LEAVE JOB** (333) transitions to **END POUR** (326) when **SPEED > 30**.
- END POUR** (326) transitions to **POURING** (322) when **WATER > 120**.
- POURING** (322) transitions to **END POUR** (328) when **SPEED > 30**.
- END POUR** (328) transitions to **LEAVE JOB** (335) when **DRUM=DISCHARGE for T=30**.
- LEAVE JOB** (335) transitions to **END POUR** (327) when **DRUM=DISCHARGE for T=30**.
- END POUR** (327) transitions to **POURING** (322) when **SPEED > 30**.
- POURING** (322) transitions to **END POUR** (325) when **GPS=PLANT & SPEED < 15**.
- END POUR** (325) transitions to **WASH** (334) when **SPEED > 30**.
- WASH** (334) transitions to **LEAVE JOB** (337) when **GPS=PLANT & SPEED < 15**.
- LEAVE JOB** (337) transitions to **WASH** (331) when **GPS=PLANT & SPEED < 15**.

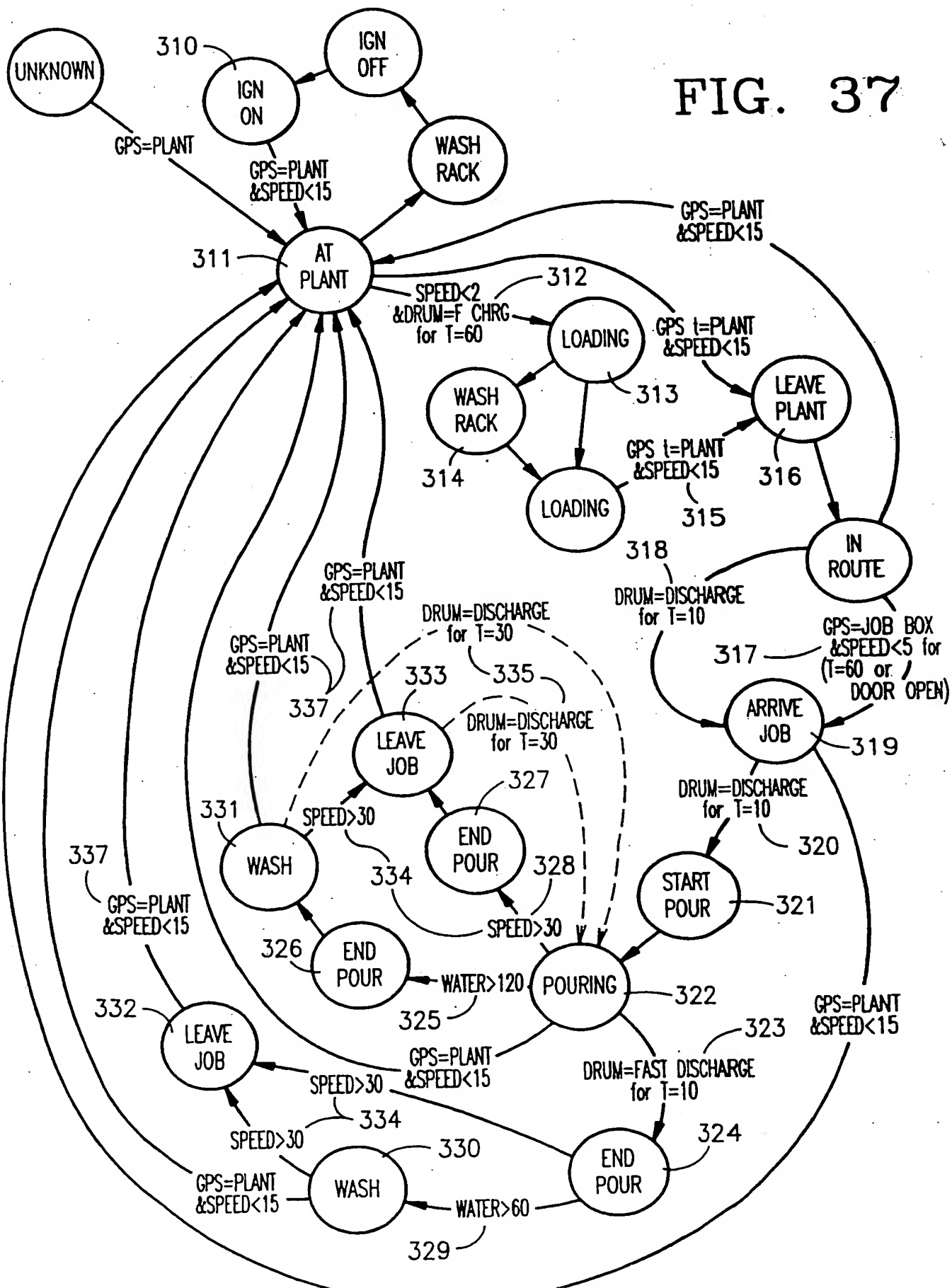


FIG. 38

